ONKYO

SACD & DVD AUDIO/VIDEO PLAYER

DV-SP800

Instruction Manual

Thank you for purchasing the ONKYO SACD & DVD AUDIO/VIDEO PLAYER.
Please read this manual thoroughly before making connections and plugging in the unit.
Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new SACD & DVD AUDIO/VIDEO PLAYER.
Please retain this manual for future reference.

DVD AUDIO / VIDEO
COMPACT disc DIGITAL VIDEO
COMPACT disc DIGITAL AUDIO
SUPER AUDIO CD

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Getting Started

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WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Important Safeguards

1. **Read Instructions** – All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** – All operating and use instructions should be followed.
5. **Cleaning** – Unplug the appliance from the wall outlet before cleaning. The appliance should be cleaned only as recommended by the manufacturer.
6. **Attachments** – Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
7. **Water and Moisture** – Do not use the appliance near water –for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
8. **Accessories** – Do not place the appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PORTABLE CART WARNING

S3125A

10. **Ventilation** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface. The appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided. There should be free space of at least 5 cm (2 in.) and an opening behind the appliance.
11. **Power Sources** – The appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.
12. **Grounding or Polarization** – The appliance may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
13. **Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
14. **Lightning** – For added protection for the appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.
15. **Overloading** – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
16. **Object and Liquid Entry** – Never push objects of any kind into the appliance through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
17. **Servicing** – Do not attempt to service the appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
18. **Damage Requiring Service** – Unplug the appliance form the wall outlet and refer servicing to qualified service personnel under the following conditions:
    A. When the power-supply cord or plug is damaged,
    B. If liquid has been spilled, or objects have fallen into the appliance,
    C. If the appliance has been exposed to rain or water,
    D. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation,
    E. If the appliance has been dropped or damaged in any way, and
    F. When the appliance exhibits a distinct change in performance – this indicates a need for service.
19. **Replacement Parts** – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
20. **Safety Check** – Upon completion of any service or repairs to the appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operation condition.
21. **Wall or Ceiling Mounting** – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
22. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
23. **Liquid Hazards** – The appliance should not be exposed to dripping or splashing and no objects filled with liquids, such as vases should be placed on the appliance.

Precautions

DANGER:

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. DO NOT STARE INTO BEAM.

CAUTION:

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

For European model

This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT". So, to use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit. To prevent being exposed to the laser beam, do not try to open the enclosure.

This label on the rear panel states that:

1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.
2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

Declaration of Conformity

We, ONKYO EUROPE ELECTRONICS GmbH
INDUSTRIESTRASSE 20
82110 GERMERING,
GERMANY

declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN60065, EN55013, EN55020 and EN61000-3-2, -3-3.

GERMERING, GERMANY

I. MORI

ONKYO EUROPE ELECTRONICS GmbH

For Canadian model

NOTE: This class B digital apparatus complies with Canadian ICES-003.

For models having a power cord with a polarized plug:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Modèle pour les Canadien

REMARQUE: Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Sur les modèles dont la fiche est polarisee:

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

For British model

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

IMPORTANT

The wires in the mains lead are colored in accordance with the following code:

Blue : Neutral

Brown : Live

As the colors of the wires in the mains lead of this apparatus may not correspond with the colored markings identifying the terminals in your plug, proceed as follows:

The wire which is colored blue must be connected to the terminal which is marked with the letter N or colored black.

The wire which is colored brown must be connected to the terminal which is marked with the letter L or colored red.

IMPORTANT

A 5 ampere fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amperes and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark or the BSI mark on the body of the fuse.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMPERE SOCKET.

If in any doubt, please consult a qualified electrician.

For U.S. model

The laser is covered by a housing which prevents exposure during operation or maintenance. However, this product is classified as a Laser Product by CDRH (Center for Devices and Radiological Health) which is a department of the Food and Drug Administration. According to their regulations 21 CFR section 1002.30, all manufactures who sell Laser Products must maintain records of written communications between the manufacturer, dealers and customers concerning radiation safety. If you have any complaints about instructions or explanations affecting the use of this product, please feel free to write to the address on the back page of this manual. When you write us, please include the model number and serial number of your unit.

In compliance with Federal Regulations, the certification, identification and the period of manufacture are indicated on the rear panel.

FCC INFORMATION FOR USER

CAUTION:

The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

1. Regional Restriction Codes (Region Number)

Regional restriction codes are built into DVD Players and DVD-Video media for each sales region. If the regional code of the DVD Player does not match one of the regional codes on the DVD-Video, playback is not possible.
The regional number can be found on the rear panel of the DVD Player. (e.g. for Region 2)

2. About This Manual

This manual explains the basic procedures for operating the DVD Player. Some DVD-Video and DVD-Audio discs do not support the full potential of the DVD technology. Your DVD Player may therefore not respond to all operating commands. Refer to instruction notes on discs.

A "⃠" mark may appear on the TV screen during operation. It means that the operation is not permitted by the DVD Player or the disc.

3. Recording Copyright

Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

4. Power

WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where the unit will be used meets the required voltage (e.g., AC 100-240 V, 50/60 Hz) written on the rear panel.

5. Do not touch the unit with wet hands

Do not handle the unit or power cord when your hands are wet or damp. If water or any other liquid enters the case, take the unit to an authorized service center for inspection.

6. Location of the unit

- Place the unit in a well-ventilated location.
  Take special care to provide plenty of ventilation on all sides of the unit especially when it is placed in an audio rack. If ventilation is blocked, the unit may overheat and malfunction.
- Do not expose the unit to direct sunlight or heating units as the unit's internal temperature may rise and shorten the life of the pickup.
- Avoid damp and dusty places and places directly affected by vibrations from the speakers. In particular, avoid placing the unit on or above one of the speakers.
- Be sure the unit is placed in a horizontal position. Never place it on its side or on a slanted surface as it may malfunction.
- When you place the unit near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the unit away from the TV, radio, or VCR.

7. Care

From time to time you should wipe the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth.
Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering.

8. Notes on Handling

- When shipping the unit, use the original shipping carton and packing materials. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long time. They will leave marks on the finish.
- The top and rear panels of the unit **may become warm after a long period of use. This is not a malfunction.**
- When the unit is not in use, be sure to remove the disc and turn off the power.
- If you do not use the unit for a long period, the unit may not function properly in the future. Turn on and use the unit occasionally.

9. To Obtain a Clear Picture

The unit is a high technology, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality becomes poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

10. Notes on Moisture Condensation

Moisture condensation damages the unit.
Please read the following carefully.

- **What is moisture condensation?**
  Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside the unit, one of the most crucial internal parts of the unit.
- **Moisture condensation occurs in the following cases.**
  – When you bring the unit directly from a cold place to a warm place.
  – When you use the unit in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
  – In summer, when you use the unit in a hot and humid place just after you move the unit from an air conditioned room.
  – When you use the unit in a humid place.
- **Do not use the unit when moisture condensation may occur.**
  If you use the unit in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the unit to the wall outlet, turn on the unit, and leave it for two or three hours. After a few hours, the unit will have warmed up and evaporated any moisture. Keep the unit connected to the wall outlet and moisture condensation will seldom occur.

Notes on Discs

This section shows you how to handle, clean, and store discs.

Playable Discs

This DVD Player can playback the following discs.

	Disc mark
DVD videos	DVD VIDEO, DVD-R*1, DVD-RW*2
DVD Audio	DVD AUDIO
VIDEO CDs	COMPACT disc DIGITAL VIDEO
Audio CDs	COMPACT disc DIGITAL AUDIO, COMPACT disc DIGITAL AUDIO Recordable*3, COMPACT disc DIGITAL AUDIO ReWritable*3, SUPER AUDIO CD

*1 This unit can play DVD-R discs recorded as DVD video format.

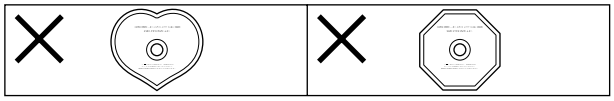
*2 This unit can play DVD-RW discs recorded as DVD video format. DVD-RW discs that were recorded with only one-generation copy permission cannot be played.

*3 This unit can play CD-R and CD-RW discs recorded in CD Audio or Video CD format, or with MP3 audio files.

Playback of certain discs may not be possible. This may be caused by a number of possibilities, including but not limited to: whether or not the disc was not finalized, the type of disc used, the type of recording; damaged or dirt on either the disc or the player's pick up lens.

* For details, refer to the operating instructions supplied with your CD recorder.

- You cannot playback discs other than those listed above.
- You cannot play discs such as CD-ROM etc., even if the marks in the above table are labeled on those discs.
- This DVD Player uses the PAL/AUTO color system, and cannot playback DVD videos recorded in any other color system (SECAM, etc.).
- Avoid using heart-shaped or octagonal discs. Playing irregularly shaped discs may damage the internal mechanism of the DVD Player.

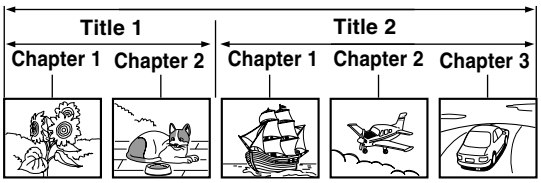


- Do not use discs that have residue from adhesive tape, rental discs that have peeling labels, or discs that have custom labels or stickers. Otherwise, you may not be able to eject the discs or the DVD Player may become inoperative.

The Structure of the Disc Content

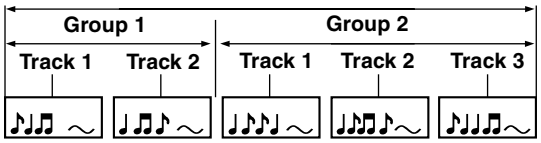
DVD-Video

Normally, the contents of DVD-Video are divided into titles, and the titles are subdivided into chapters.



DVD-Audio

The contents of DVD-Audio are divided into groups, and the groups are subdivided into tracks.



Video CD/CD

Video CD and CD are divided into tracks.

About VIDEO CDs

This DVD Player supports VIDEO CDs equipped with the PBC (Version 2.0) function. (PBC is the abbreviation of Playback Control.) You can enjoy two playback variations depending on the type of disc.

- **VIDEO CD not equipped with PBC function (Version 1.1)**
  Sound and movies can be played on this DVD Player in the same way as an audio CD.
- **VIDEO CD equipped with PBC function (Version 2.0)**
  In addition to operation of the VIDEO CD not equipped with the PBC function, you can enjoy playback with interactive software and search function using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this Instruction Manual may not work with some discs.

MP3 compatibility information

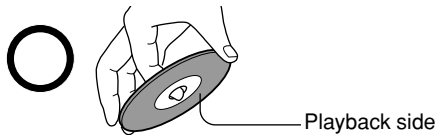
- The CD-ROM must be ISO 9660 compatible.
- Files should be MPEG1 Audio Layer 3 format, 44.1 or 48kHz, fixed bit-rate. Incompatible files will not play and "UNPLAYABLE MP3 FORMAT" will be displayed.
- Not compatible with variable bit-rate (VBR) files.
- This system only plays tracks that are named with the file extension ".mp3" or ".MP3".
- This system is not compatible with multi-session discs. If you try to play a multi-session disc, only the first session will be played.
- Use CD-R or CD-RW media for recording your MP3 files. The disc must be finalized in order to play.
- Audio encoded at 128Kbps should sound close to regular audio CD quality. Although this system will play lower bit-rate MP3 tracks, the sound quality becomes noticeably worse at lower bit-rates.
- Only the first 8 characters of folder and track names (excluding the ".mp3" extension) are displayed.
- This system can recognize a maximum of 250 folders and 250 tracks. Discs containing more than 250 folders or tracks will not play.

Notes on Copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission.
DVD videos are copy protected, and any recordings made from these discs will be distorted.
This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Handling Discs

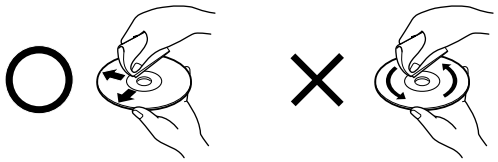
- Do not touch the playback side of the disc.



- Do not attach paper or tape to discs.

Cleaning Discs

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.



- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

Storing Discs

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

Features/Supplied Accessories

Features

- THX*1 Ultra Certified
- DTS*2/Dolby Digital*3/MPEG2/PCM Digital Audio Outputs
- Advanced 192-kHz/24-Bit D/A Converters
- Vector Linear Shaping Circuitry
- RCA 6ch Multi-channel outputs
- 108-MHz/12-bit Video D/A Conversion
- Progressive Component Video Outputs and a SCART connector (European models only)
- Progressive Component Video Outputs
- Direct Digital Path
- Plays DVD-Audio and Video Discs, DVD-Rs, DVD-RWs, MP3 CDs, CD-Rs, CD-RWs, Video CDs, SACDs and Audio CDs
- Pre-programmed and Learning Remote Control

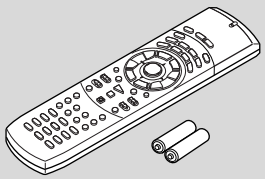
*1 Manufactured under licence from Lucasfilm Ltd. Lucasfilm and THX are trademarks of Lucasfilm Ltd.
*2 "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.
*3 Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol □□ are trademarks of Dolby Laboratories.

THX Ultra
Before any home theatre component can be THX Ultra certified, it must pass a rigorous series of quality and performance tests. Only then can product feature the THX Ultra logo, which is your guarantee that the Home Theatre products you purchase will give you superb performance for many years to come.

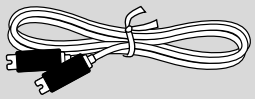
Supplied Accessories

Make sure your box contains everything listed below.
If any pieces are missing, contact your nearest ONKYO dealer.
The number of accessories is indicated in brackets.

Remote controller (RC-498DV) [1]
Batteries (size AA/UM-3) [2]

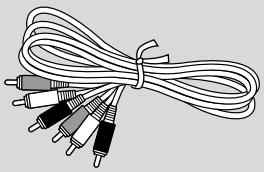


S-video cable [1]
Cable which sends S-video images.

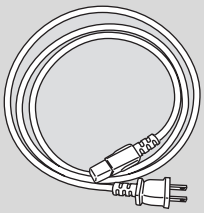


RI cable [1]
Cable used for system connections to an Integra/ Onkyo component with an RI jack.
(The components will not function as a system with only RI connections. Be sure to connect the audio connection cables correctly as well.)

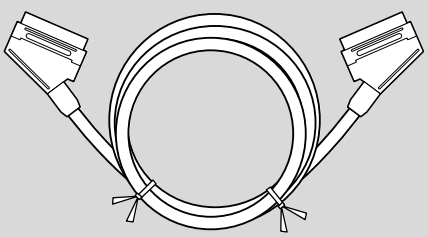
Audio/video connection cable [1]
The cable with the yellow plug is for video. The cable with the red and white plugs are for audio.



Power cord [1]
Shape may vary depending on the area which it was purchased.



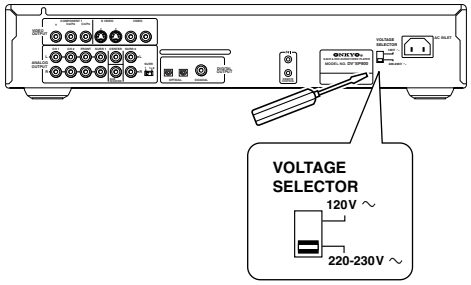
SCART cable [1] (European model)



Before You Start

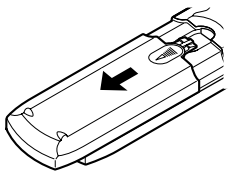
Setting the Voltage Selector (Worldwide models only)

Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit.
Determine the proper voltage for your area: 220-230 V or 120 V. If the preset voltage is not correct for your area, insert a screwdriver into the groove in the switch. Slide the switch all the way to the upper (120 V) or to the lower (220-230 V), whichever is appropriate.

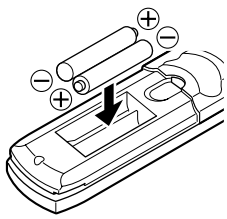


Inserting the Batteries

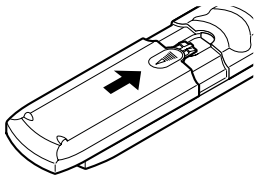
① **Open the battery compartment cover.**



② **Insert the two R6 (size AA) batteries.**
Be sure to match the + and – ends of the batteries with the diagram inside the battery compartment.



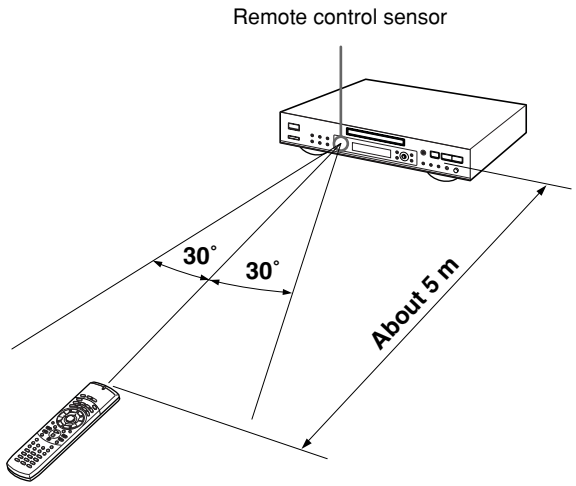
③ **Close the battery compartment cover.**



Notes
- Do not mix new batteries with old batteries or different kinds of batteries.
- To avoid corrosion, remove the batteries if the remote controller is not to be used for a long time.
- Remove dead batteries immediately to avoid damage from corrosion. If the remote controller does not operate smoothly, replace both batteries at the same time.
- The life of the batteries supplied is about six months but this will vary depending on usage.

Using the Remote Controller

Point the remote controller toward the remote control sensor.

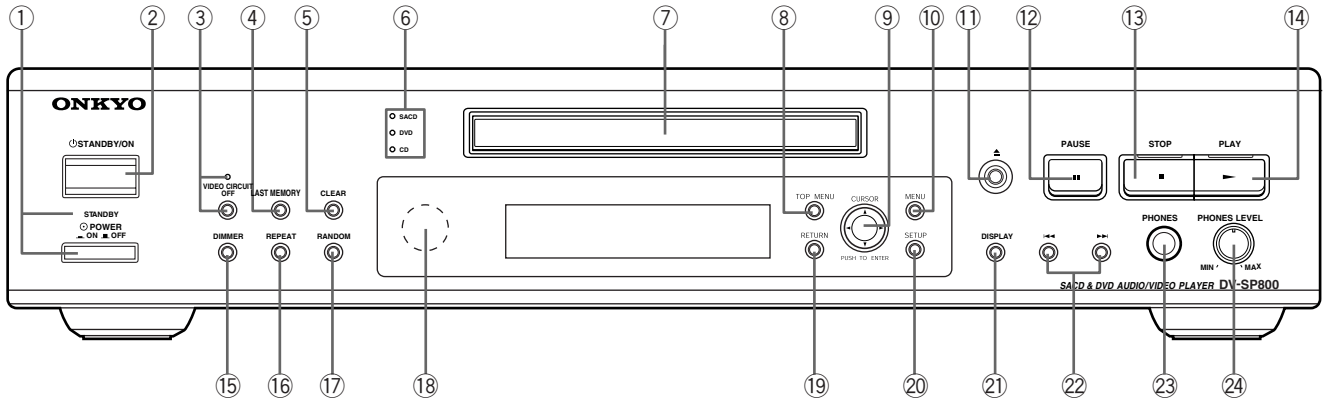


Notes
- Place the unit away from strong light such as direct sunlight or inverted fluorescent light which can prevent proper operation of the remote controller.
- Using another remote controller of the same type in the same room or using the unit near equipment which uses infrared rays may cause operational interference.
- Do not put any object such as a book on the remote controller. The buttons of the remote controller may be pressed by mistake and drain the batteries.
- Make sure the audio rack doors do not have colored glass. Placing the unit behind such doors may prevent proper remote controller operation.
- If there is any obstacle between the remote controller and the remote control sensor, the remote controller will not operate.

Index to Parts and Controls

For operational instructions, see the page indicated in brackets [ ].

■ Front panel



① POWER switch and STANDBY indicator [20]
Turns on the main power supply for the DV-SP800.
The DV-SP800 enters standby state and the STANDBY indicator lights up. Pressing the switch again to the off position (▙ OFF) shuts down the main power supply into the DV-SP800.
• Before turning on the power, make sure all cables are properly connected.

② STANDBY/ON button [20, 21, 25, 28, 46, 64]
When STANDBY/ON button is pressed to ON while the POWER switch is set to ON, the DV-SP800 turns on and the STANDBY indicator turns off. The indicator around ⏏ button lights up. Pressing the button again returns the DV-SP800 to the standby state. This state turns off the display, disables control functions.

③ VIDEO CIRCUIT OFF button and indicator [42]
Press to switch the video signal off.

④ LAST MEMORY button [40]
You can resume DVD or Video CD playback from the point you last watched even if the disc is removed from the player. Press LAST MEMORY during playback to set a Last Memory point. When you want to resume playback of that disc, press LAST MEMORY in the stop mode and playback starts from the memorized point. Last Memory locations can be stored for up to 5 DVDs and 1 Video CD.

⑤ CLEAR button [31-36, 39-41, 59]
Works in conjunction with a number of player functions. Use to cancel repeat and random playback, and to edit programs.

⑥ DISC indicator [25]
When playing a disc, the appropriate disc type indicator lights up.

⑦ Disc tray [25]
When loading a disc, place discs in the disc tray with the label side facing up.

⑧ TOP MENU button [26, 30]
Press to call up the top menu programmed on the DVD. Depending on the DVD, the top menu may be identical to the DVD menu.

⑨ Cursor (◄/►/▲/▼) button/ENTER button [21,46]
Use ◄/►/▲/▼ to move through the options on menu screens and to change settings. Use ENTER to implement settings selected with the cursor buttons or to set items highlighted in a menu.

⑩ MENU button [26, 31, 38, 39, 58]
Use to display or close the DVD menu or MP3 Navigator screen.

⑪ ⏏ button [25, 28]
Press to open and close the disc tray.

⑫ ❚❚ PAUSE button [27]
Press during playback to pause. Press again to resume playback.

⑬ ■ STOP button [28]
Press to stop playback. Whenever a disc is loaded in the player, indicator above ■ STOP lights up.

⑭ ► PLAY button [25]
Press to start or resume playback. Whenever a disc is loaded in the player, indicator above ► PLAY lights up.

⑮ DIMMER button [45]
Toggle to control the lightness of the display (4 steps).

⑯ REPEAT button [32]
Use to set the repeat mode.

⑰ RANDOM button [33]
Press to play chapters/tracks in random order.

⑱ Remote control sensor [9]
Point the remote control toward the remote sensor to operate the player.

⑲ RETURN button [26, 46, 59, 62]
Use to go one menu back (current settings are maintained). Use RETURN when you do not want to change the option setting in a menu.

⑳ SETUP button [21, 46, 64]
Press when the player is in either play or stop mode to open and close the Setup screen.

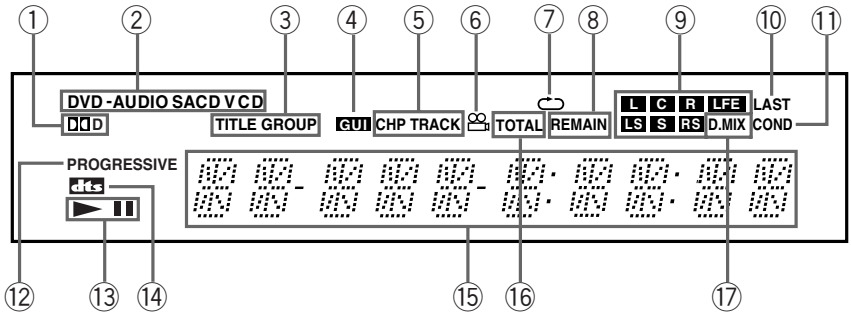
㉑ DISPLAY button [44, 45, 55]
Press during playback to display statistical disc information. Press repeatedly to display different information.

㉒ I◄◄/►►I button [26, 27]
Press to go back or advance to previous chapters/tracks. Press and hold to perform fast-reverse/fast-forward playback scanning.

㉓ PHONES jack [43]
This is a standard stereo jack for connecting stereo headphones. The audio for the ANALOG OUTPUT CH 1 and CH 2 are sent to the headphone speakers.

㉔ PHONES LEVEL dial [43]
Use to control the phones level. Turn the dial clockwise to increase the phones level and counterclockwise to decrease it.

■ Display



① D indicator
Lights when Dolby Digital sound is selected and played back. (Only with DVDs recorded in Dolby Digital).
② Inserted disc indicator [25]
③ TITLE/GROUP indicator
④ GUI (Graphical User Interface) indicator
Lights when an on-screen menu operation is being performed. On-screen menu helps you set up the player.
⑤ CHP/TRACK indicator
⑥ Angle icon indicator [38]
⑦ REPEAT indicator [32]
⑧ REMAIN indicator
Lights up to indicate the remaining time of titles, chapters and tracks.
⑨ L, C, R, LS, RS and LFE indicator [50]
Indicates the compatible audio channels for DVD playback.
L: Left front channel
C: Center channel
R: Right front channel
LS: Left surround channel
S: Surround channel (monoural)
RS: Right surround channel
LFE: LFE (Low Frequency Effect) channel
⑩ LAST indicator [40]
⑪ COND indicator [41]
⑫ PROGRESSIVE indicator
Lights when progressive video signals are output.
⑬ ►/II indicator
⑭ DTS indicator
Lights when DTS is selected and played back. (Only with DVDs recorded in DTS).
⑮ Multifunctional indicator
(e.g. operating status and error messages)
⑯ TOTAL indicator
Lights up to indicate the total number of titles, tracks and track playback time.
⑰ D.MIX indicator
Indicates when DVD audio, Dolby Digital, DTS or MPEG etc. audio is downmixed (channel dowmixing) (e.g., when 5.1 channel sound is downmixed to 2 channels).

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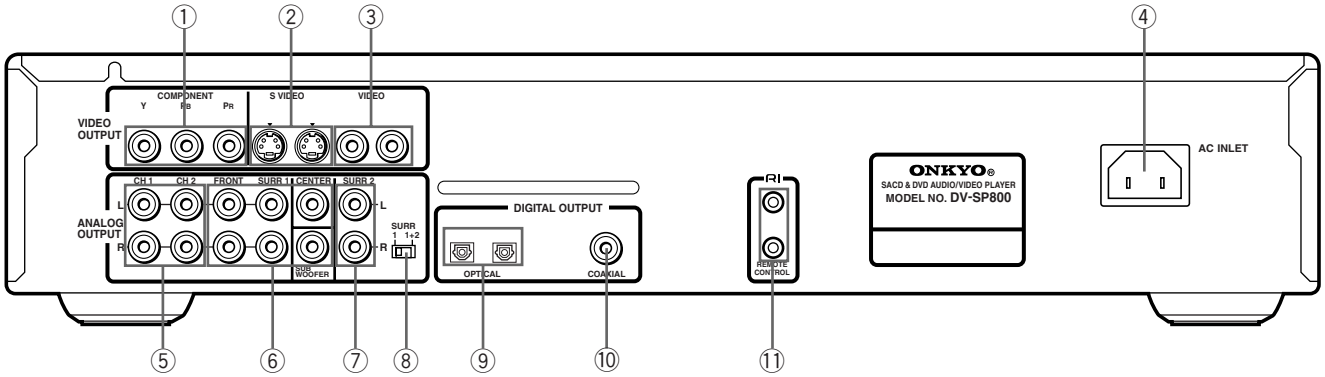
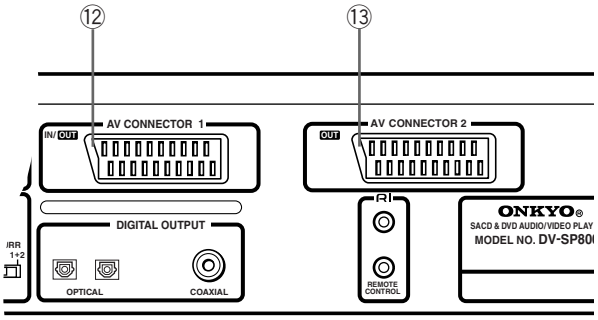
■ Rear panel



European models.



Shapes of jacks vary depending on the area in which it was purchased.

① VIDEO OUTPUT COMPONENT jacks [16]
If your TV has component inputs, you can connect a component video cable to your TV and to your DVD Player for ideal video quality. The component Video Cable only carries the video signal; remember to connect the left and right audio cables. If you connect a TV that is compatible with a Progressive scan signal, you can enjoy both Interlaced and Progressive scan.

② VIDEO OUTPUT S VIDEO jack [16, 17]
If your TV or monitor has an S-video input, clear picture reproduction is possible by connecting the player to your TV or monitor via the S-Video jack.
You can switch between [S1] and [S2] S-video output from the Setup menu.

③ VIDEO OUTPUT VIDEO jack [15]
Connect to the video input on a TV or monitor or AV amplifier or receiver with video input capability.

④ AC INLET [20]
Use to connect the power cord to the wall outlet.

⑤ ANALOG OUTPUT CH 1/CH 2 jacks [16-19]
Use to output two-channel audio (analog) to the audio stereo inputs on a TV or stereo amplifier.

⑥ ANALOG OUTPUT FRONT/SURR 1/CENTER/ SUBWOOFER jacks [19]
Use to output 5.1 channel audio (analog) to the 5.1 channel discrete inputs on an amplifier. If you are connecting to a receiver that has both digital and analog input jacks for DVD player connection, it may be beneficial to make both connections.

⑦ SURR 2 jacks [19]
Use when making connections to 7.1 channel analog inputs. (Make sure the SURR 1/1+2 selector switch is set to 1+2.)

⑧ SURR 1/1+2 selector switch [19]
When using 2 channel surround, select 1, when using 4 channel surround, select 1+2. Audio will be output 3dB lower when 1+2 is selected. The same audio is output from SURR 1 and from SURR 2.

⑨ DIGITAL OUTPUT OPTICAL jack [18]
Use to output the digital audio signal recorded on discs. You can output the digital signal via the optical output jack to an AV amplifier or receiver.

⑩ DIGITAL OUTPUT COAXIAL jack [18]
Use to output the digital audio signal recorded on discs. You can output the digital signal via the coaxial output jack to an AV amplifier or receiver.

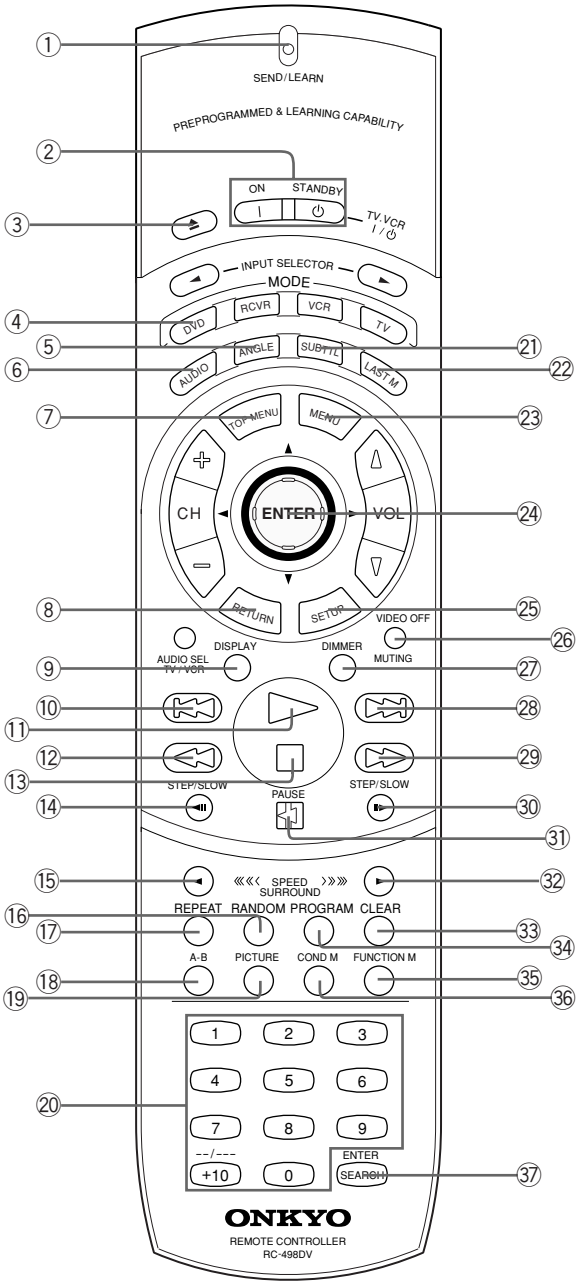
⑪ RI jack [18, 19]
Use to connect this player to another component bearing the RI mark. This lets you control this unit as though it were a component in a system.
(The components will not function as a system with only RI connections. Be sure to connect the audio connection cables correctly as well).

(European models)

⑫ AV CONNECTOR 1 (IN/OUT) jack [17]
Use a 21-pin SCART cable to connect to a TV, monitor or video component compatible with this type of connection. Outputs both audio and video (composite only) when the unit is powered on. When the unit is in standby mode, this jack becomes an input for audio and video (RGB, S, and composite).

⑬ AV CONNECTOR 2 (OUT) jack [17]
Use a 21-pin SCART cable to connect to a TV or monitor compatible with this type of connection. Outputs audio and video (RGB, S, and composite) when the unit is powered on.
When the unit is in standby mode, this jack outputs the audio and video input from the AV CONNECTOR 1 jack.

■ Remote controller (Operation buttons)



① SEND/LEARN indicator [65]
Lights when the remote controller is sending a command to the DVD Player or other pre-programmed component, and when learning the command of another remote control unit.

② ON/STANDBY buttons [20]
Press ON to turn the DVD Player on and STANDBY to put the DVD Player in standby. (The STANDBY indicator lights up.)

③ ⏏ button [25]
Press to open and close the disc tray.

④ DVD button [65]
Press to select the DVD mode. In this mode, the remote controller is set to control the DVD Player.

⑤ ANGLE button [38]
Press repeatedly to select a camera angle when a DVD-Video is recorded with multiple angle playback.

⑥ AUDIO button [39]
Press repeatedly to select an audio and/or language track recorded on a DVD-Audio/Video.

⑦ TOP MENU button [26, 30]
Press to select the top menu on a DVD-Audio/Video. This menu may be the same as the DVD menu.

⑧ RETURN button [26]
Press to go back to a previous menu screen.

⑨ DISPLAY button [44]
Press during playback to display statistical disc information. Press repeatedly to display different information.

⑩ ⏮ (skip back) button [27]
Press to return to previous titles, groups, chapters, or tracks.

⑪ ► (play) button [28]
Press to start playback.

⑫ ◄◄ (fast reverse) button [27]
Press to scan rapidly backward through the contents on a disc.

⑬ ■ (stop) button [28]
Press to stop playback.

⑭ STEP/SLOW ◄II button [29]
Press to perform slow reverse playback of a DVD.

⑮ SPEED button ◄ [27]
Press repeatedly during playback or pause to switch the reverse playback speed.

⑯ RANDOM button [33]
Press to start random playback.

⑰ REPEAT button [32]
Press to repeat playback.

⑱ A-B button [32]
Press to repeat a specific section on a disc.

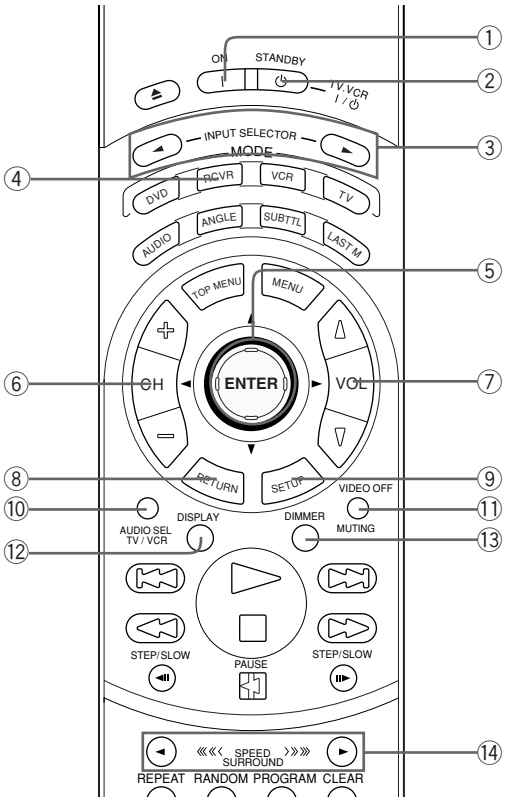
⑲ PICTURE button [54]
Press to display the pre-programmed setting menu.

⑳ Number buttons [34]
Use to enter numeric values

㉑ SUBTTL button [39]
Press repeatedly to select one of the subtitle languages recorded on a DVD-Video.
㉒ LAST M button [40]
Press to resume playback from the point you last watched.
㉓ MENU button [26]
Press to display the DVD menu.
㉔ ▲/▼/◄/► and ENTER multi control [46]
Use to navigate menu screens and enter settings.
㉕ SETUP button [21]
Press to display the Setup screen menu.
㉖ VIDEO OFF button [42]
Press to turn off the video output circuitry for a more dedicated audio performance.
㉗ DIMMER button [45]
Press repeatedly to change the brightness of the front panel display in four grades (including turning the front panel display off).
The dimmer setting is restored to normal brightness whenever the DVD Player is turned off.
㉘ ►►I (skip forward) button [27]
Press to advance through titles, groups, chapters, or tracks.
㉙ ►► (fast forward) button [27]
Press to scan rapidly forward through the contents on a disc.
㉚ STEP/SLOW II► button [29]
Press to perform slow forward playback of a DVD or Video CD.
㉛ PAUSE button [27]
Press to pause.
㉜ SPEED button ► [27]
Press repeatedly during playback or pause to switch the forward playback speed.
㉝ CLEAR button [32]
Press to clear entered values and settings.
㉞ PROGRAM button [34]
Press to playback titles, chapters, or tracks in a specific order.
㉟ FUNCTION M button [64]
You can store in 5 memory settings. Press FUNCTION M to memorize and recall the settings.
㊱ COND M button [41]
You can store in memory the settings for DVDs. Press COND M during DVD playback to memorize the settings.
㊲ SEARCH button [30]
Press to find the specific section on a disc where you want to start playback.

Remote controller buttons that can be used to control your Onkyo receiver

Press RCVR to set the remote controller to operate an Onkyo receiver. The following buttons can be used to operate an Onkyo receiver. Refer to the manual supplied with your receiver for details on each function.

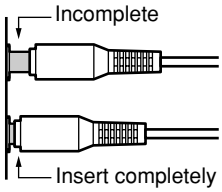


① ON button
Press ON to turn the receiver on.
② STANDBY button
Press STANDBY to put the receiver in standby.
③ INPUT SELECTOR
Press to select the input. These buttons can be used in either DVD or RECEIVER mode.
④ RCVR button
Press to switch to receiver mode.
⑤ ◄/►/▲/▼/ENTER button
Use to navigate menu screens and enter settings.
⑥ CH buttons
Press to select the radio presets if the receiver has radio features.
⑦ VOL buttons
Press to adjust the volume. These buttons can be used in either DVD or RECEIVER mode.
⑧ RETURN button
Press to return to the previous menu during the receiver setup screen.
⑨ SETUP button
Press to display/turn off the receiver setup menu.
⑩ AUDIO SEL button
Press to switch audio inputs.
⑪ MUTING
Press to mute/cancel mute function.
⑫ DISPLAY button
Press to change the display.
⑬ DIMMER button
Press repeatedly to change the brightness of the front panel display.
⑭ SURROUND Mode button
Press to switch listening modes (surround modes).

Connecting to a TV

Before connecting

- Refer also to the instruction manual of the TV.
- When you connect the DVD Player to the TV, be sure to turn off the power and unplug both units from the mains before making any connections.
- Connect the DVD Player to the TV directly. If you connect the DVD Player to a VCR, TV/VCR combination, or video selector, the playback picture may be distorted as DVD videos are copy protected.
- Connect the plugs securely.

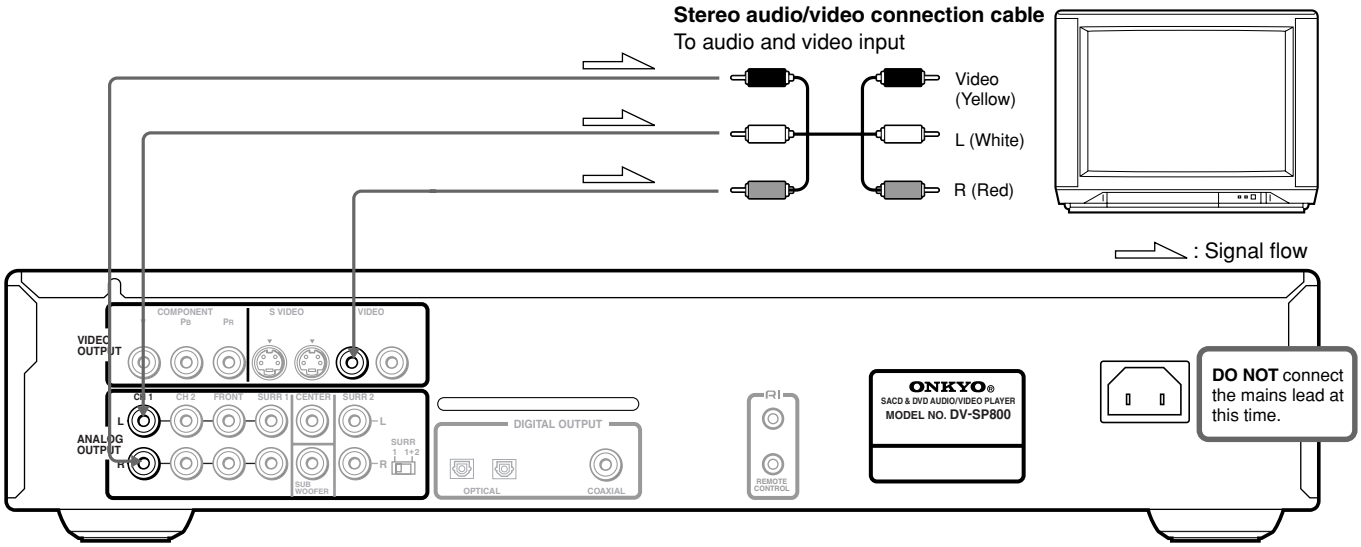


■ Using the supplied audio/video connection cable

Using the supplied audio/video cable, make audio connections from the ANALOG OUTPUT CH 1 or CH 2 L and R jacks to the corresponding audio input jacks on the TV. In the same manner, make video connection from the VIDEO OUTPUT VIDEO jack to the corresponding video input jack on the TV.
By making connections to a stereo system, you can improve the quality of the sound. Using an audio cable (not supplied), make audio connections from the ANALOG OUTPUT CH 1 or CH 2 L and R jacks to the corresponding jacks on the stereo component.

Note
Be sure to match the colors of the plugs on the cable with the corresponding jacks on the DVD Player and the TV: yellow for video, red for R (right) audio and white for L (left) audio.
If the TV audio is monaural, leave the red plug disconnected.

Be sure to set the TV Aspect after connection using the Setup Navigator explained in "Setting Up the Player" starting on page 21 or the function setting menu explained in "Adjusting Audio and Video Settings" starting on page 46.



Notes

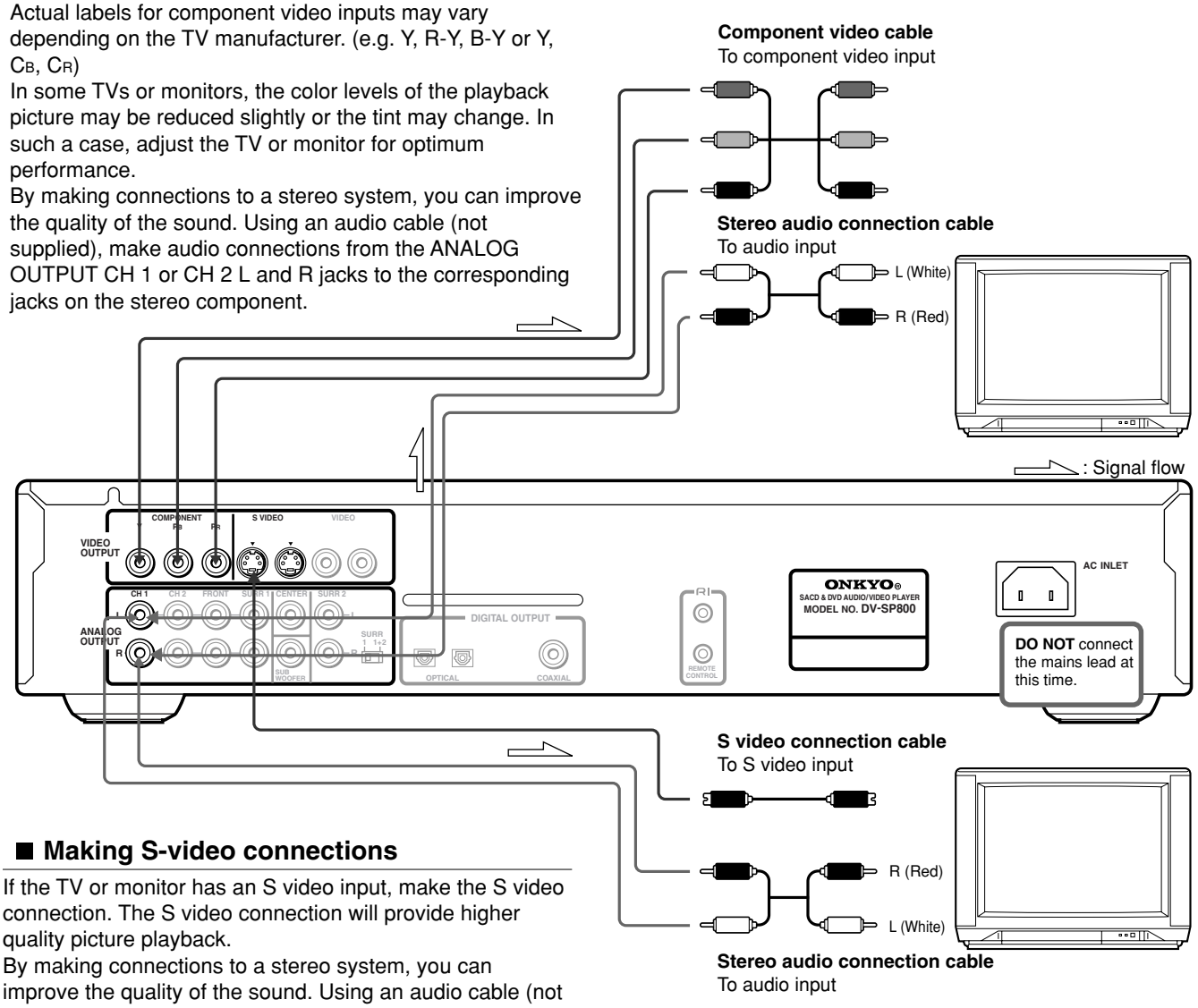
- Connect the player's video output directly to the television.
- Since the player is compatible to analog copy protection there may be cases when recordings from the deck may be distorted during playback.
- Progressive signals are not output from the players video or S1/S2 video output jack.

Connecting to a TV

■ Making component video connections

If the TV or monitor has component video inputs, making this type of video connection will produce the ideal picture quality for the presentation of DVD-Video. Using a component video cable (sold separately), connect the VIDEO OUTPUT COMPONENT jacks to the corresponding component video input jacks on the TV.
Actual labels for component video inputs may vary depending on the TV manufacturer. (e.g. Y, R-Y, B-Y or Y, C_B, C_R)
In some TVs or monitors, the color levels of the playback picture may be reduced slightly or the tint may change. In such a case, adjust the TV or monitor for optimum performance.
By making connections to a stereo system, you can improve the quality of the sound. Using an audio cable (not supplied), make audio connections from the ANALOG OUTPUT CH 1 or CH 2 L and R jacks to the corresponding jacks on the stereo component.

Be sure to set the TV Aspect after connection using the Setup Navigator explained in "Setting Up the Player" starting on page 21 or the function setting menu explained in "Adjusting Audio and Video Settings" starting on page 46.



■ Making S-video connections

If the TV or monitor has an S video input, make the S video connection. The S video connection will provide higher quality picture playback.
By making connections to a stereo system, you can improve the quality of the sound. Using an audio cable (not supplied), make audio connections from the ANALOG OUTPUT CH 1 or CH 2 L and R jacks to the corresponding jacks on the stereo component.

Notes

- If you make the S video connection, leave the yellow plug disconnected.
- If the TV audio is monaural, leave the red plug disconnected.

Connecting to a TV (European models)

■ Connecting to a TV Using the SCART Cable (European models)

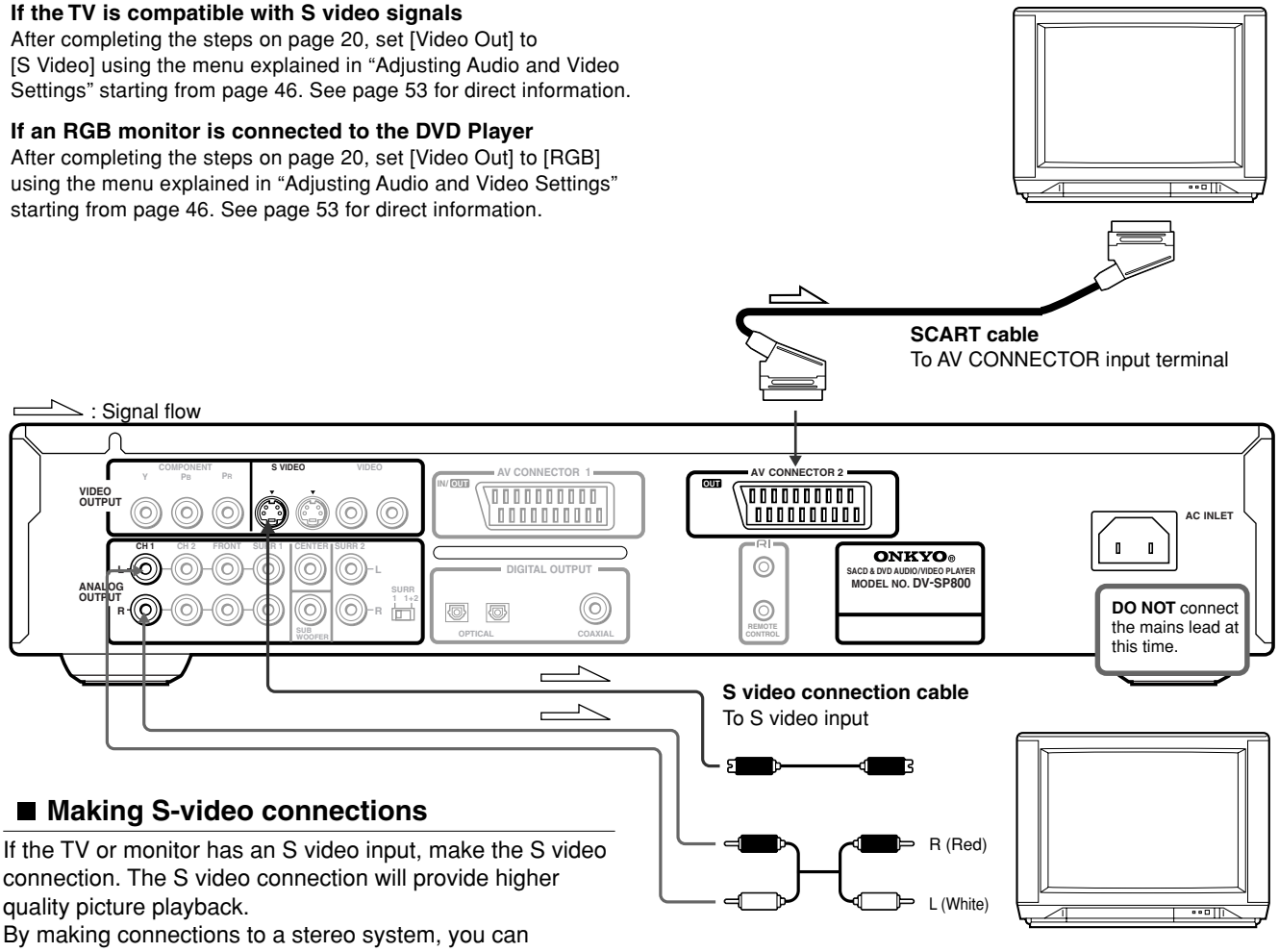
Connect the DVD Player and your TV using the supplied SCART cable.

Note
S Video and RGB signals are not output from AC CONNECTOR 1.

If the TV is compatible with S video signals
After completing the steps on page 20, set [Video Out] to [S Video] using the menu explained in "Adjusting Audio and Video Settings" starting from page 46. See page 53 for direct information.

If an RGB monitor is connected to the DVD Player
After completing the steps on page 20, set [Video Out] to [RGB] using the menu explained in "Adjusting Audio and Video Settings" starting from page 46. See page 53 for direct information.

Be sure to set the TV Aspect after connection using the Setup Navigator explained in "Setting Up the Player" starting on page 21 or the function setting menu explained in "Adjusting Audio and Video Settings" starting on page 46.



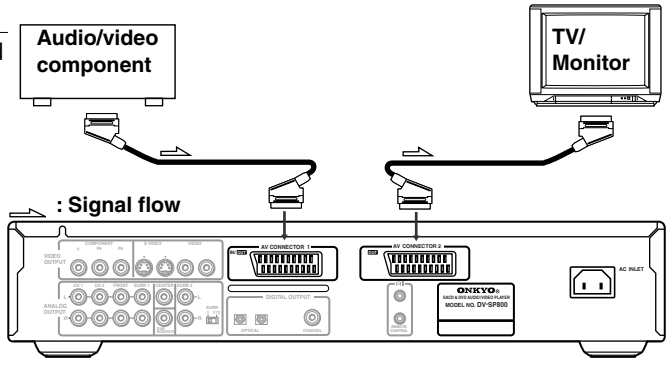
■ Making S-video connections

If the TV or monitor has an S video input, make the S video connection. The S video connection will provide higher quality picture playback.
By making connections to a stereo system, you can improve the quality of the sound. Using an audio cable (not supplied), make audio connections from the ANALOG OUTPUT CH 1 or CH 2 L and R jacks to the corresponding jacks on the stereo component.

Notes
- If you make the S video connection, leave the yellow plug disconnected.
- If the TV audio is monaural, leave the red plug disconnected.

■ AV CONNECTOR 1 jack

When the unit is in standby mode, audio and video (RGB, S, and composite) input to AV CONNECTOR 1 SCART jack will be output from AV CONNECTOR 2.
For instance, if an audio/video component is connected to AV CONNECTOR 1 with a SCART cable, and a TV or monitor is connected to AV CONNECTOR 2, audio and video input from the component will be output to AV CONNECTOR 2 and displayed on the TV or monitor during standby mode.

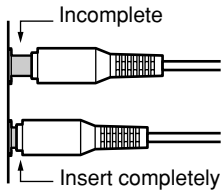


Connecting to an Amplifier (To Enjoy the Sound Advantage of the DVD Player)

Although you can reproduce the DVD Player's sound from the TV speakers with the connections on pages 15, 16 and 17, connecting with an amplifier provides you high quality dynamic sounds.

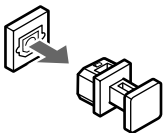
Before connecting

- Refer to the instruction manual of the amplifier.
- When you connect the DVD Player to the amplifier, be sure to turn off the power and unplug both units from the mains before making any connections. Otherwise, the speakers may be damaged.
- Connect the plugs securely.



Notes

- The remote controller supplied with Onkyo amplifier can be used to operate the DVD player.
- The function of the upper and lower RI connectors are the same. Connect to either one.
- Connecting RI cable only does not make the system operational. You must also connect the audio cables as well.
- When using the optical input jack, remove the protective cap and keep it safely. When the jack is not used, replace the protective cap.



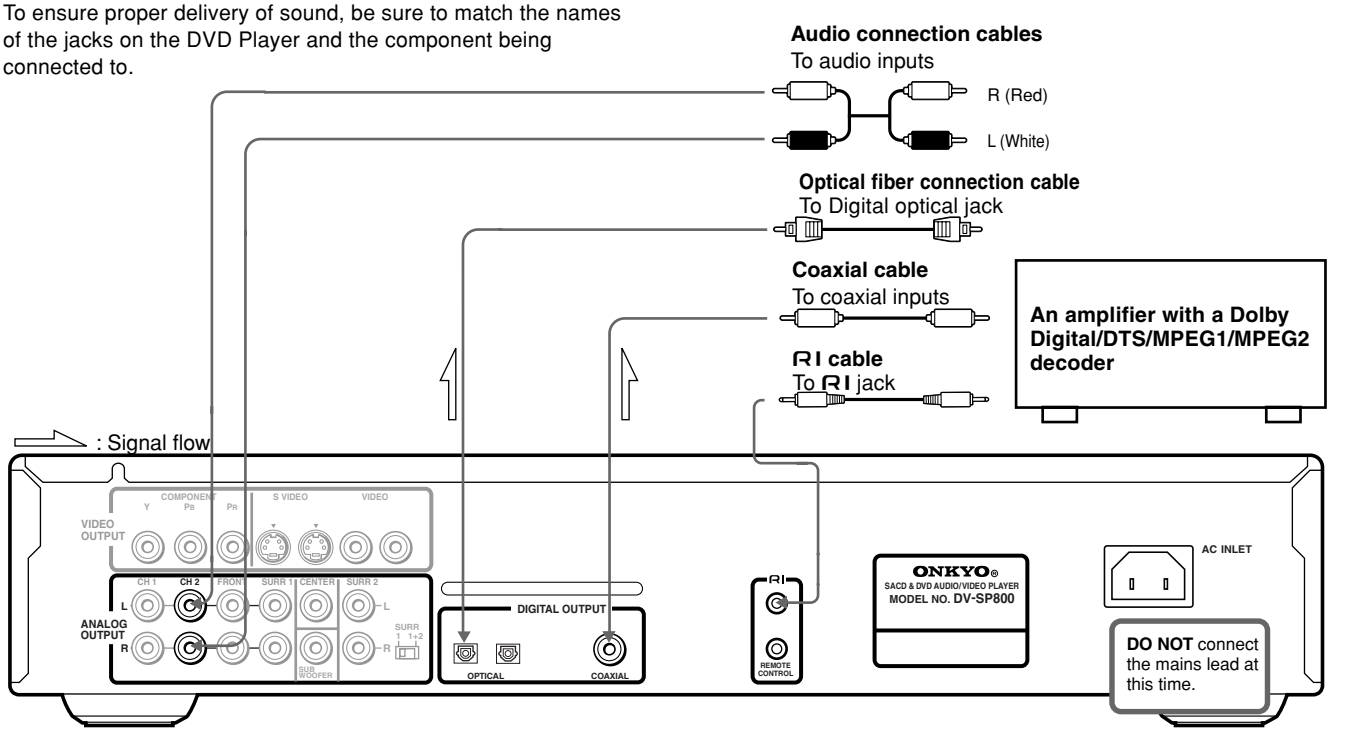
■ Making a digital connection with the amplifier

If your amplifier has a digital input jack, be sure to connect it to either DIGITAL OUTPUT OPTICAL or COAXIAL jack on the DVD player.

Note

DO NOT connect to the AC-3RF input (e.g. of a Dolby Digital receiver) which is reserved only for video disc players.
To ensure proper delivery of sound, be sure to match the names of the jacks on the DVD Player and the component being connected to.

Be sure to set the digital output setting after connection using the Setup Navigator explained in "Setting Up the Player" starting on page 21 or the function setting menu explained in "Adjusting Audio and Video Settings" starting on page 46.



Note

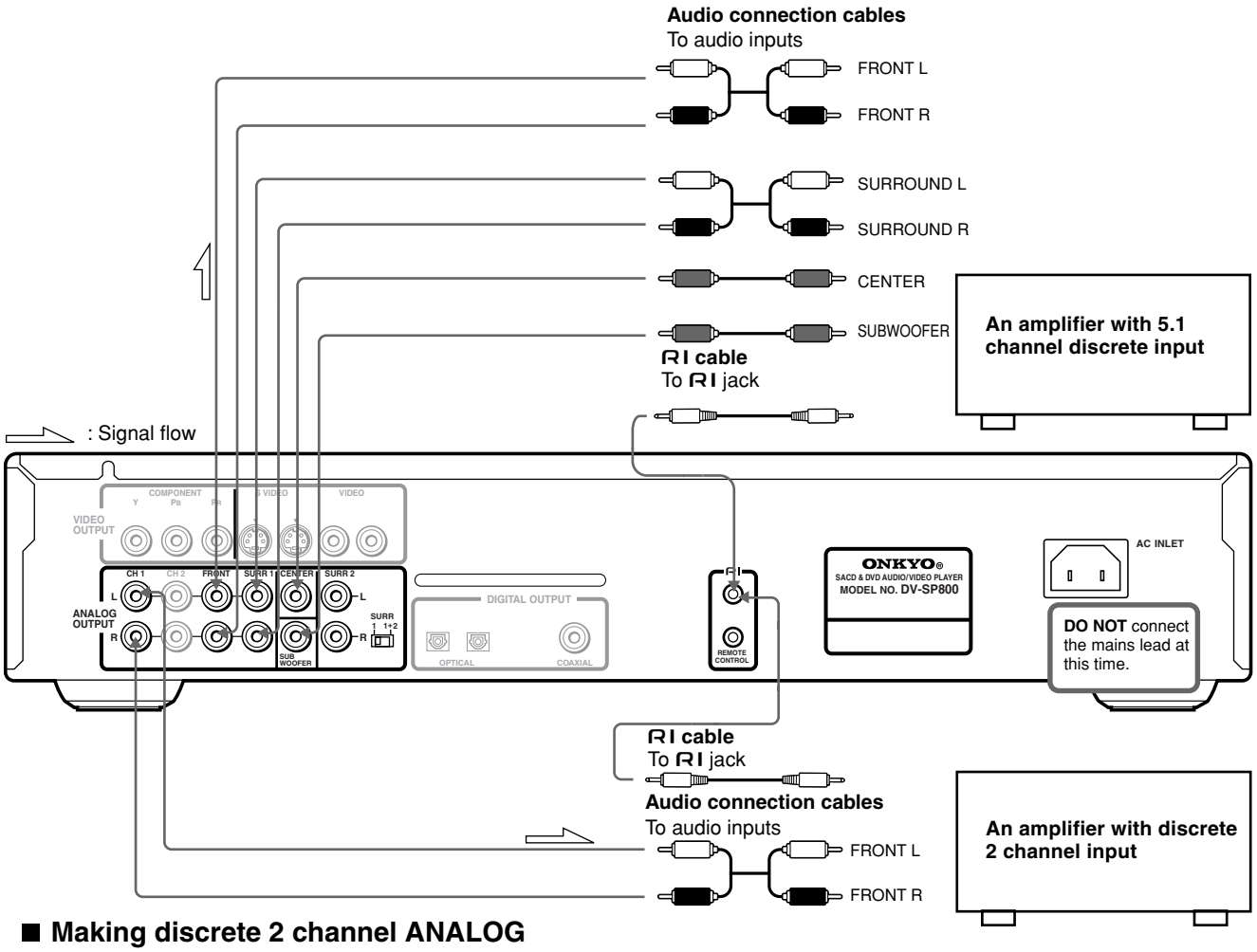
If you listen to multichannel DVD-Audio through one of the digital outputs, it will be downmixed to stereo. Also, high sampling rate DVD-Audio (192kHz or 176.4kHz) will be downsampled to 96kHz, 88.2kHz, 48kHz, or 44.1 khz, depending on the disc. Multi channel and high sampling rate DVD-Audio is only available through the analog outputs.
Some DVD-Audio and all SACD audio is output only through the analog outputs.
In order to enjoy Dolby Digital/DTS 5.1 channel sound, a separate Dolby Digital decoder, and 5.1 channel (front right/left, center, surround right/left) + subwoofer are required.

■ Making discrete 5.1 channel ANALOG OUTPUT connections

The discrete ANALOG OUTPUT jacks are intended to deliver up to 5.1 channels of multi channel audio from DVD-Video and DVD-Audio sources. Connections can be made from the ANALOG OUTPUT FRONT, SURR 1 (surround), CENTER, and SUBWOOFER jacks to the corresponding input jacks on an AV component with multi channel discrete audio input jacks.

Notes

- To ensure proper delivery of sound, be sure to match the names of the jacks on the DVD Player and the component being connected to.
- When connecting to an amplifier with 5.1 channel analog sound inputs, connect this unit's SURR 1 jacks to the amplifier surround inputs.
  (Make sure the SURR 1/1+2 selector switch is set to 1).
- When connecting to an amplifier with 7.1 channel analog sound inputs, connect this unit's SURR 2 jacks to the amplifier's additional surround inputs.
  (Make sure the SURR 1/1+2 selector switch is set to 1+2. The same audio will be output from SURR 1 and from SURR 2).



■ Making discrete 2 channel ANALOG OUTPUT connections

Use a separately sold audio cord to connect ANALOG OUTPUT CH 1 or CH 2 L/R jacks for stereo sound.

Note

To ensure proper delivery of sound, be sure to match the names of the jacks on the DVD Player and the component being connected to. Do not connect the PHONO, or TUNER jacks of other components to this player.

Connecting the Power/Turning on the DVD Player

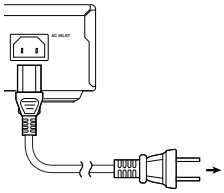
Before connecting

- The DV-SP800 is shipped with the main power (POWER) switch in the on position (▂ ON). When the power cord is plugged in for the first time, the DV-SP800 will automatically enter the standby state and the STANDBY indicator will light (same condition after step 2 below).
- Make sure that all the connections on pages 15-19 are complete (the connection to a TV is required).

1

Plug the supplied power cord into the AC INLET and then into the power outlet on the wall.

- Do not use a power cord other than the one supplied with the DV-SP800. The power cord supplied is designed for use with the DV-SP800 and should not be used with any other device.
- Never have the power cord disconnected from the DV-SP800 while the other end is plugged into the wall outlet. Doing so may cause an electric shock. Always connect by plugging into the wall outlet last and disconnect by unplugging from the wall outlet first.



2

Press POWER to switch on the main power.

The DVD Player enters standby mode.

The STANDBY indicator lights up.

- The buttons on the remote controller do not operate if the POWER switch is set to OFF.
- To switch off the main power, press POWER again.

3

Press STANDBY/ON on the DVD Player or ON on the remote controller.

The DVD Player turns on and the STANDBY indicator turns off.

- To put the DVD Player in the standby mode, press STANDBY/ON on the DVD Player, or STANDBY on the remote controller. Be sure to set the volume to minimum before putting the DVD Player in the standby mode for the next use to avoid sudden loud sound reproduction.
- While the STANDBY indicator lights up, the DVD Player can receive signals from the remote controller. However, if you press POWER on the DVD Player to switch off the main power, the remote controller cannot be used to turn on the DVD Player.
- Setting the STANDBY button to standby does not shut off the power completely.

■ Setting the TV System (Other than US and Canada models)

The default setting of this player is AUTO, and unless you notice that the picture is distorted when playing some discs, you should leave it set to AUTO.

If you experience picture distortion with some discs, set the TV system to match your country or region's system. Doing this, however, may restrict the kinds of disc you can watch. The table below shows what kinds of disc are compatible with each setting (AUTO, PAL and NTSC).

Disc		Output format		
Type	Format	Position of TV SYSTEM mode		
		NTSC	PAL	AUTO
DVD	NTSC	NTSC	MOD. PAL	NTSC
	PAL	——	PAL	PAL
Video CD	NTSC	NTSC	MOD. PAL	NTSC
	PAL	NTSC	PAL	PAL
CD, No disc		NTSC	PAL	NTSC or PAL

1 Switch the player into standby.

2 Hold down ►►I then press STANDBY/ON until the display indicates the new setting to switch the TV system.

The TV system changes as follows:

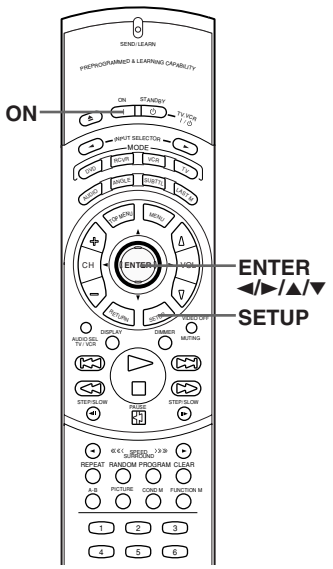
AUTO → NTSC
NTSC → PAL
PAL → AUTO

Note that you have to switch the player into standby before each change.

About MOD. (Modulation) PAL

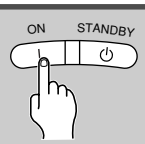
- SHRINK
  Most models of the newly developed countdown PAL TV system detect 50 Hz (PAL)/60 Hz (NTSC) and automatically switch vertical amplitude, resulting in a display without vertical shrinkage.
- If your PAL TV does not have a V-Hold control, you may not be able to view NTSC disc because the picture may roll. If the TV has a V-Hold control, adjust it until the picture stops rolling. On some TVs, the picture may shrink vertically, leaving black bands at the top and bottom of the screen. This is not a malfunction; it is caused by the NTSC → PAL conversion.

Setting Up the Player



The Setup Navigator has been designed to simplify the process of getting the DVD player ready to perform. Designed as a series of on-screen multiple-choice questions, the Setup Navigator automatically sets the audio, video, and language settings according to how the questions are answered. Once this procedure is complete, it will be possible to begin using the DVD player to enjoy DVDs.
The procedure on this page describes the operations necessary to function within the Setup Navigator screens. A detailed description of the contents of each question that appears on the screen can be found on the following pages.

Using the Setup Navigator

1 

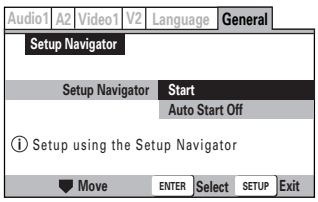
Press ON (STANDBY/ON on the front panel).

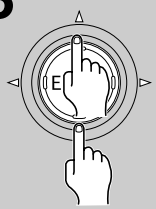
If there's already a disc loaded and it starts to play, press ■ to stop it.

2

Press SETUP.

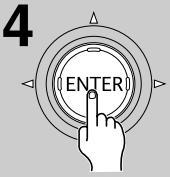
When SETUP is pressed for the first time, the following screen appears. Though the Setup Navigator may be used more than once, this screen only appears the first time SETUP is pressed.



3 

Use the cursor buttons (▲/▼) to make a selection.

- If you are going to use the Setup Navigator, it is not necessary to change the setting on the first screen. Please proceed to the next step.
- If you do not want to set up the player using the [Setup Navigator], use the cursor button (▼) to select [Auto Start Off] at this time.
  The Setup Navigator function may still be used at a later time in manual Setup screen menu operation (page 46).

4 

Press ENTER.

The selection is entered and the next Setup Navigator screen appears.

Use steps 3 and 4 as a basis for entering selections on the all of the Setup Navigator screens described on the following pages.

■ When setting up for the first time

Some DVDs start playing automatically when loaded in the player. Because the Setup Navigator cannot be used if a disc is playing, it is recommended to set up the player using the Setup Navigator before loading a DVD for the first time. If a DVD has been loaded, be sure to press ■ before proceeding.

■ To change the answer to a prior question

Use the cursor button (◄) to return to previous screens. Please note, however, that you cannot go forward using the cursor button (►), so it will be necessary to answer all the questions that occur after the screen that was returned to.

■ To exit the Setup Navigator

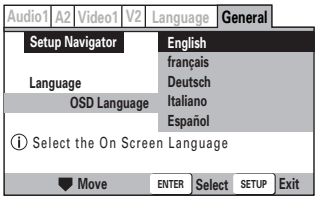
Press SETUP while on any of the screens to exit the Setup Navigator. Please note that if the Setup Navigator is exited before all the questions are answered, no settings are changed.

Note
On-screen information (ⓘ) appears to clarify the functions and explain the options available.

Using the Setup Navigator

■ Setting the OSD Language (On-Screen Display Language)

The [OSD Language] screen establishes the OSD language, or on-screen display language, which refers to the language that is used by the player in menus and on-screen messages. Additionally, the language that is established at this setting will also be used for the default audio and subtitle language.



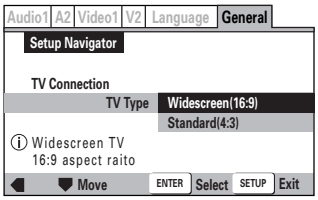
Settings: **English**
français
Deutsch
Italiano
Español

Notes

- The languages that can be selected may be different from those shown above.
- In addition to setting the [OSD Language], the audio and subtitle language are also set at this time. If you wish to change the audio or subtitle language to a different language, make changes in the Setup screen Language menu [Audio Language] and [Subtitle Language] as needed (pages 57, 58).

■ Setting the TV screen size

The [TV Type] screen establishes the size, or more appropriately the width to height ration of your television or monitor. The width-to-height ratio of conventional TVs is 4:3, while the width-to-height ratio of wide screen and high-definition TVs is 16:9. This width-to-height ratio is called the aspect ratio.



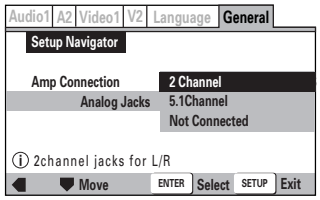
Settings: **Widescreen (16:9)**
Standard (4:3)

Note

There are two screen formats that can be used to display wide-screen format DVDs: letter box and pan & scan. When [Standard (4:3)] is selected in the Setup Navigator, the letter box screen format is automatically selected. To switch the preference to the pan & scan format, make changes in the Setup screen Video 1 menu [TV Screen] setting (page 52).

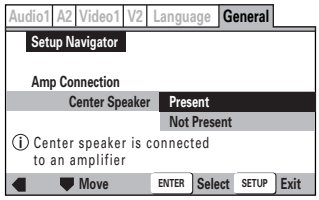
■ Setting the type of analog audio connections

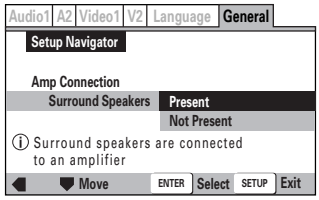
The [Amp Connection] screen establishes the type of analog audio connection you made to your amplifier/receiver.

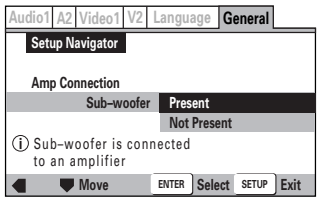


Settings: **2 Channel**
5.1Channel
Not Connected

If you select [5.1Channel] audio connection, confirm which speakers are connected to your amplifier.





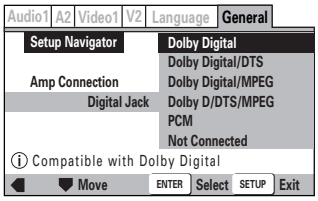


Note

If you connected the audio output directly to your TV, choose [2 Channel].

■ Setting digital audio connections to an AV amplifier or decoder

The [Digital Jack] screen establishes whether digital connections have been made to an AV amplifier, receiver, or external decoder. As there are numerous options available, please refer to the instructions supplied with the component the player is connected to determine what digital audio formats can be decoded. If you have made no digital connections, select [Not Connected].



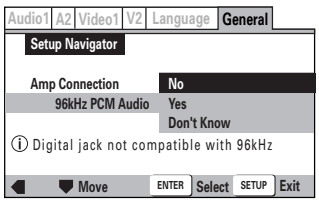
Settings: **Dolby Digital**
Dolby Digital/DTS
Dolby Digital/MPEG
Dolby D/DTS/MPEG
PCM
Not Connected

Warning

- Do not set [Digital Jack] to [Dolby Digital/DTS] or [Dolby D/DTS/MPEG] if the amplifier does not have a DTS decoder. If you do so, high volume sound may be output and damage your hearing as well as speakers.
- Select [PCM] when you connect the player to a 2 channel digital stereo amplifier. If you select other than [PCM], high volume sound may be output and damage your hearing as well as speakers.

■ Setting compatibility with 96 kHz output

The [96 kHz PCM Audio] screen establishes whether or not the AV component the player is connected to is capable of processing an audio signal with a sampling rate of 96 kHz. This screen only appears if connections have been made to an external AV component as determined in previous screens.



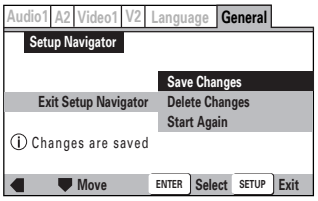
Settings: **No**
Select if the connected AV component cannot process an audio signal with a sampling rate of 96 kHz.

Yes
Select if the connected AV component can process an audio signal with a sampling rate of 96 kHz.

Don't Know
Select if you are uncertain whether the connected AV component can process an audio signal with a sampling rate of 96 kHz.

■ Confirming the settings

The [Exit Setup Navigator] is the final screen in the Setup Navigator.



Settings: **Save Changes**
Select to have the player make all of the necessary audio, video and language settings according to your responses in the Setup Navigator.

Delete Changes
Select to exit the Setup Navigator without changing any of the system settings.

Start Again
Select to return to the [OSD Language] screen of the Setup Navigator and do the settings again.

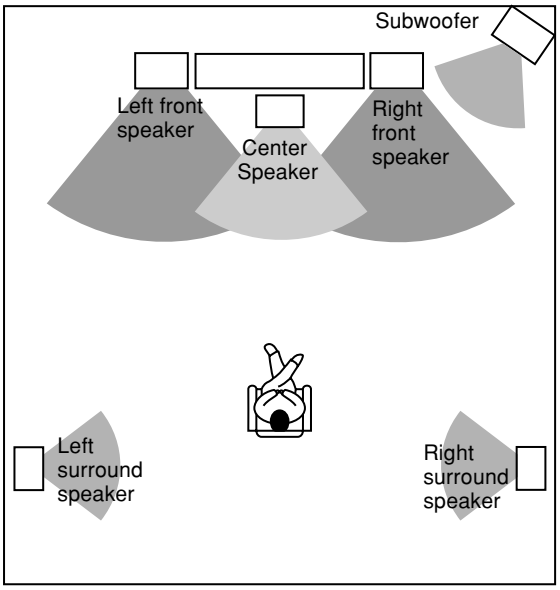
■ To change other player settings in the Setup screen menus

The procedure for changing the settings in the Setup screen menus is described on page 46.

Setting Up the Player

Various sound formats and sound effects

Minimum speaker configuration for DTS/Dolby Digital/MPEG2 surround sounds



The 5.1-channel digital surround format of DOLBY DIGITAL/ DTS/MPEG2 enables you to individually play five full-range (20 Hz-20 kHz) channels (left and right front, center, two surround channels) plus an LFE (Low Frequency Effect) channel for the low-range effect sound. It will create a realistic sound as heard in theaters and concert halls.

DOLBY DIGITAL Surround
DVD Video that have the DOLBY DIGITAL mark are recorded using this system.

DTS Surround
DVD Video and CD that have the DTS mark are recorded using this system.

MPEG2
DVD Video that have the MPEG Multichannel mark are recorded using this system. MPEG2 may have 8 channels. In this case, left and right center speakers in addition to the above speaker configuration are used.

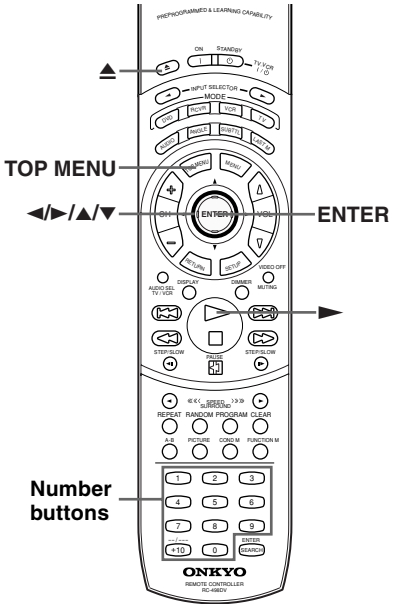
DOLBY PRO LOGIC Surround
This surround format consists of 4 channels (left and right front, center, and monaural surround channel) and emphasizes the center channel. This format is very effective for panning music, conversation, and three-dimensional sound movement output from three front channels. It also simulates the atmosphere and surround effects of the sound reflected from the side and rear walls of the theater.

DVD Video that have the DOLBY SURROUND mark are recorded using this system.

Getting Started Using Your DVD Player

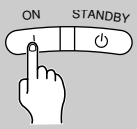
Before you can start to enjoy the digital audio and video on DVDs, be sure that you have either performed the Setup Navigator procedure described in the previous section or made the necessary settings in the Setup screen menus as outlined in the next section to set up the player to correspond to your home system. Having made these settings, you are now ready to start using the player to enjoy DVDs, Video CDs, CDs and MP3s.

Warning
If the DVD Player is connected to the TV or amplifier through the analog audio jacks, do not play DTS-encoded discs. Excessive noise may be output from the analog stereo jacks, which may damage the connected equipment.
To reproduce DTS surround sounds, digital connection to an amplifier with a DTS decoder is needed.



DVD VCD CD SACD MP3

Playing SACDs, DVDs, Video CDs, CDs and MP3s

1 

Press ON (STANDBY/ON on the front panel).

2

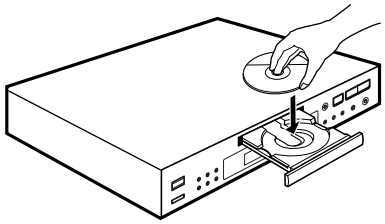
Press ▲.

The disc tray comes out.

3

Load a disc.

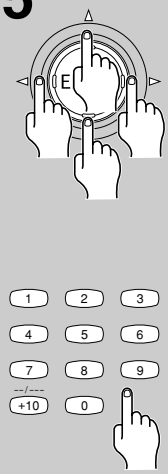
Load a disc with the label side facing up, using the disc tray guide to align the disc.



4

Press ►.

- The disc tray closes, and playback begins.
- The appropriate disc indicator lights.
- MP3 only: It may take a few seconds for the player to locate the track on the disc, depending on the complexity of the file structure. During this time, "Please wait a moment" is displayed.
- Depending on the disc, a menu may be displayed. If a menu is displayed, proceed to step 5.

5 

Select the item you want to view.

- When a DVD is loaded:

  Select the item with the cursor buttons (◄/►/▲/▼) or the number buttons then press ENTER.
- When a Video CD is loaded:

  Use the number buttons to select the item.

Notes

- Noise is output if you make digital audio connections to a receiver or amplifier that does not have a built-in decoder. Check that the digital audio output format selected in the Audio menu corresponds to the audio components you have made connections to (pages 23, 48, 49).
- The TV screen size is factory set to present the wide screen format (16:9 aspect ratio). If you have a standard TV screen (4:3 aspect ratio), this setting can be changed to match your TV screen size in the Video 1 menu (pages 22, 52).
- Do not move the DVD Player during playback. Doing so may damage the disc.
- Use ▲ on the remote controller or DVD Player to open and close the disc tray. Do not touch the disc tray while it is moving. Doing so may cause the DVD Player to malfunction.
- Do not press down on the disc tray or put any objects other than playable discs on the disc tray. Doing so may cause the DVD Player to malfunction.
- In many instances, a menu screen appears when playback of a movie is complete. Prolonged display of an on-screen menu may damage your television set, permanently etching that image onto its screen. To avoid this, be sure to press ■ once the movie is complete.

■ About the SACD, DVD, DVD-V, DVD-A, VCD, CD and MP3 marks in the pages related to disc operation

SACD means the function or title is related to SACD operation.
DVD means the function or title is related to both DVD-Video and DVD-Audio operation.
DVD-V means the function or title is related to DVD-Video operation.
DVD-A means the function or title is related to DVD-Audio operation.
VCD means the function or title is related to Video CD operation.
CD means the function or title is related to audio CD operation.
MP3 means the function or title is related to MP3 operation.

■ When an operation is prohibited

There are times when you are using the player and attempt to perform an operation, but for some reason it cannot be performed. When this occurs, one of the two following icons appears on the screen.

The operation is prohibited by the player.

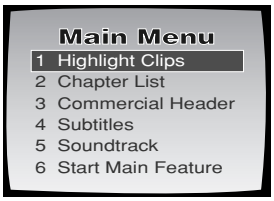
The operation is prohibited by the programming on the disc.

DVD VCD

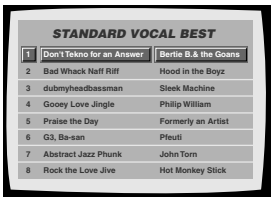
When a Menu Screen is Displayed

Menu screens are displayed for DVDs that have menu screens or Video CDs that include Playback Control (PBC). DVDs often contain extra information that can be accessed in the DVD menu and sometimes makes navigating DVD menu screens as enjoyable as watching the feature presentation.

Example: When a DVD that has menu screens is loaded



Example: When a Video CD that has Playback Control is loaded


STANDARD VOCAL BEST
1 Don't Tekno for an Answer Bertie B.& the Goans
2 Bad Whack Naff Riff Hood in the Boyz
3 dubmyheadbassman Sleek Machine
4 Gooey Love Jingle Philip William
5 Praise the Day Formerly an Artist
6 G3, Ba-san Pfeuti
7 Abstract Jazz Phunk John Torn
8 Rock the Love Jive Hot Monkey Stick

■ To navigate a menu screen

- Although individual DVD titles may differ, when a menu screen is displayed, use the cursor buttons (◄/►/▲/▼) and ENTER on the remote control. The cursor buttons are used to move around the options on the screen and ENTER is used for selection.
- Occasionally, the number buttons may also be used to make selections. If this is possible, using number buttons serves to directly select an option on a menu screen. Only number buttons are used to make selections on Video CD menu screens.
- When the Video CD has more than one menu, pages can be advanced to or returned to with I◄◄ or ►►I.

DVD VCD

To Open or Return to the DVD or Video CD Menu Screen

Although this differs depending on the disc, pressing MENU, TOP MENU or RETURN during DVD playback or RETURN during Video CD playback displays the menu screen. Refer to the DVD or Video CD disc jacket and accompanying documentation for more information.

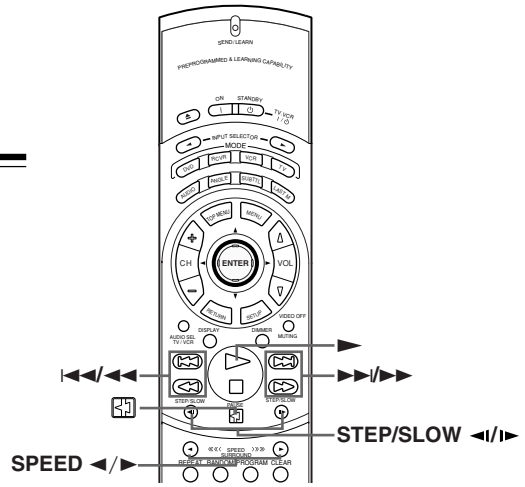
■ To play Video CDs without displaying menu screens

Video CDs with Playback Control (PBC) display a menu screen when play is started. It is possible, however, to play back Video CDs without displaying menu screens.
When a Video CD with PBC is loaded, press ■, and then the number button of the track you want to play.

MP3

MP3 compatibility information

- The CD-ROM must be ISO 9660 compatible.
- Files should be MPEG1 Audio Layer 3 format, 44.1 or 48kHz, fixed bit-rate. Incompatible files will not play and “UNPLAYABLE MP3 FORMAT” will be displayed.
- Not compatible with variable bit-rate (VBR) files.
- This system only plays tracks that are named with the file extension “.mp3” or “.MP3”.
- This system is not compatible with multi-session discs. If you try to play a multi-session disc, only the first session will be played.
- Use CD-R or CD-RW media for recording your MP3 files. The disc must be finalized in order to play.
- Audio encoded at 128Kbps should sound close to regular audio CD quality. Although this system will play lower bit-rate MP3 tracks, the sound quality becomes noticeably worse at lower bit-rates.
- Only the first 8 characters of folder and track names (excluding the “.mp3” extension) are displayed.
- This system can recognize a maximum of 250 folders and 250 tracks. Discs containing more than 250 folders or tracks will not play.



DVD VCD CD SACD MP3

Chapter (Track) Skip Forward/Skip Back

Advancing to the next chapter (track)

Press ►►|.

Press to skip forward to the next chapter (track).

Skipping back to the previous chapter (track)

Press |◄◄.

- Press once to skip back to the start of the chapter (track) currently playing.
- Press twice to skip back to the start of the previous chapter (track).

DVD VCD CD SACD MP3

Pausing Playback

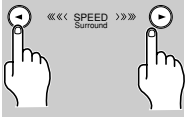
Press ⏸ Pause.

Press to pause a disc that is playing.

- Press again to return to normal playback.

DVD VCD CD SACD MP3

Switching the Playback Speed



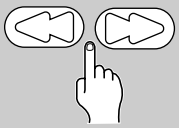
Press SPEED ◄/►.

Press SPEED ◄/► repeatedly during playback or pause to switch the reverse/forward playback speed from slow to fast.

Sound is not output during slow/fast reverse/forward playback.

DVD VCD CD SACD MP3

Forward and Reverse Scanning



Fast forward and reverse scanning

Press and hold ►► or ◄◄ during playback to scan forwards or backwards.

While "►►1" or "◄◄ 1" is displayed on-screen blinking, release the button to resume normal playback.

During DVD audio playback, "►► 2" is displayed on screen.

During MP3 playback, "►►" is displayed on screen.

Variable speed scanning

1 Press (but don't hold) ►► or ◄◄ during playback to start scanning.

"►► 1" or "◄◄ 1" appears on screen.

2 Depending on the type of disc playing, you can increase the scanning speed by pressing ►► or ◄◄.

The scan speed is shown on-screen.

DVD-Video discs have three scanning speeds;

1, 2 and 3.

DVD-Audio discs have two scanning speeds;

2 and 3.

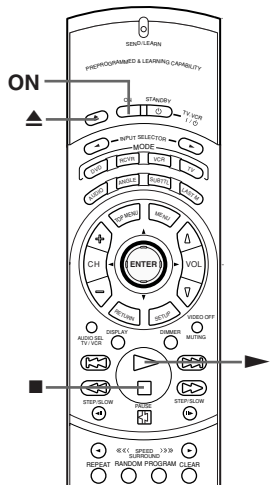
SACD, CD, and Video CDs have two scanning speeds;

1 and 2.

MP3 have only one scanning speed.

3 Press ► to resume normal playback.

Getting Started Using Your DVD Player



DVD-V VCD

Resuming Playback from where you stopped

Use the resume feature to restart playback from the point that the disc was stopped last time.
This features cannot be used with SACD, DVD Audio discs, MP3s and CDs.

1

Press ■ once.

The display shows “RESUME” and the stop position is memorized.

- The resume position remains memorized as long as the disc is in the player — even if you switch the power off.
- Pressing ■ twice causes the disc to return to the beginning when ► is pressed again. The display shows the disc type (DVDs or Video CDs).

2

Press ►.

Playback starts from the resume position.

Notes

- The actual restart position may be slightly before or after the resume position.
- If you want to remove the disc, but still want to resume playback from the last stopped position, use the Last Memory feature instead (page 40).
- The memorized resume position is erased when you open the disc tray, or change the Parental Lock Level setting (page 61) or On-screen Display (OSD) setting (page 57).

DVD VCD CD SACD MP3

Stopping Playback and Switching Power Off

1

Press ■.

Playback stops.

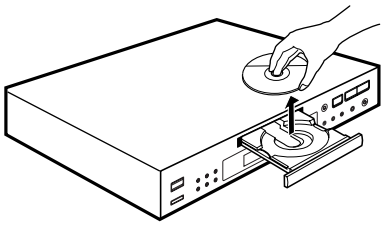
2

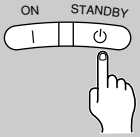
Press ⏏.

The disc tray comes out.

3

Remove the disc.



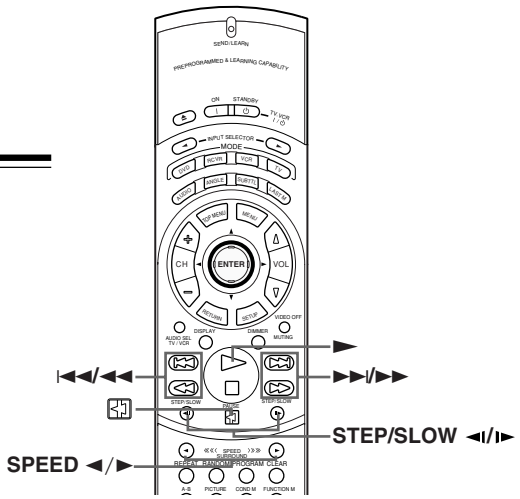
4 

Press STANDBY (STANDBY/ON on the front panel).

The disc tray goes back in.

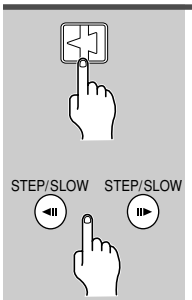
Still Frame/Slow Play

The video images on DVD and Video CD can be viewed as a still frame, played back at slow speeds and even advanced frame by frame.



DVD VCD

Viewing a still frame



Press ⊡, STEP/SLOW ◄II / II►.

When viewing a DVD, if the paused picture shakes, select the [Field] setting in the Setup screen Video 2 menu [Still Picture] setting as described in the section on page 56.

■ Frame by frame advance playback: Viewing one frame at a time

You can't use frame review with Video CDs.

1 Press ⊡, STEP/SLOW ◄II / II►.

2 Press STEP/SLOW ◄II / II►.

STEP/SLOW II►: The picture advances one frame each time the button is pressed.

STEP/SLOW ◄II: The picture backs up a DVD a few frames each time the button is pressed.

■ To control still pictures

DVD-Audio may include still pictures, which are classified into two large groups.

Slide show: Still pictures appear one after another automatically consistent with the disc program.

Browsable pictures: You can display your favorite still picture selected with the buttons on the remote control.

Press STEP/SLOW ◄II / II► to select a picture. (The order of pictures vary depending on the disc.)

■ To return to normal playback

When viewing a still frame playback, pressing ⊡ or ► restores normal playback operation.

Notes

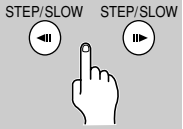
- There is no sound when viewing still frames or slow playback, or when advancing one frame at a time.
- Still frame, slow play, or frame advance playback may not be possible with certain titles. In this case, the 🚫 mark is displayed.

DVD-V VCD

Viewing slow playback

You can't use slow reverse play with Video CDs.

1

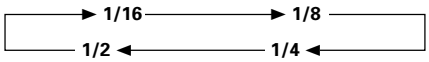


During still frame playback, press and hold STEP/SLOW ◄II / II► during playback.

2

Press STEP/SLOW ◄II / II► repeatedly to change the slow-motion speed.

There are four slow-motion play speeds:



■ To return to normal playback

When viewing a slow playback, pressing ► restores normal playback operation.

Viewing slow playback is unavailable from Video CDs.

Notes

- Press SPEED ◄/► repeatedly during playback or pause to switch the reverse/forward playback speed from slow to fast.
- Sound is not output during slow/fast reverse/forward playback.

Locating a Specific Title/Group/Folder/ Chapter/Track/Location

DVD VCD CD SACD MP3

Searching for a Title, Group, Folder, Chapter, Track, or Location on a Disc

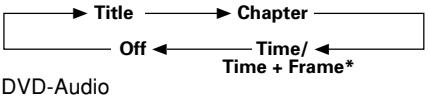
This player offers different ways of accessing the information on a DVD, Video CD, CD, SACD or MP3. Using Search, you can search for titles or chapters on a DVD-Video, groups or tracks on a DVD-Audio, tracks on a Video CD, CD or folders or tracks on a MP3 and even select the point in time to start playback.

1

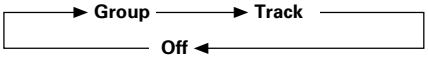
Press SEARCH repeatedly to select the type of search.

The type of search changes which each press as follows.

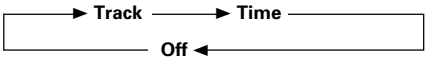
DVD-Video



DVD-Audio

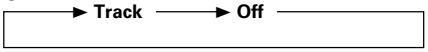


Video CD

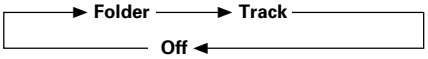


SACD

CD



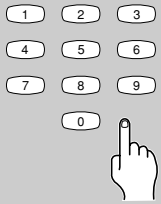
MP3



* The Frame Search option in the Video 1 menu must be [On] to use this.

- DVD-Audio discs may also contain still pictures. You can search for certain types of still pictures by pressing SEARCH and specifying the still picture number.

2



Press the number button(s) of the desired title, group, chapter or track or of the specific time where you would like to begin playback.

- To select number 3, press 3.
- To select number 10, press 1 and 0.
- To select number 87, press 8 and 7.

When performing a time search:

- To select 21 minutes, 43 seconds, press 2, 1, 4, and 3.
- To select 1 hour, 14 minutes, press 7, 4, 0, and 0.

3

Press ►.

Playback of the selected title, folder, chapter or track starts. When Time Search is performed, playback begins at the appointed time. When Frame Search is performed, the unit pauses at the requested frame.

Notes

- For some discs, selection can be made using the top menu on the DVD. In this case, press TOP MENU to display the menu screen and then make your selection.
- With some DVDs, the search operation may not be possible and may stop shortly after being performed. In this case, the mark is displayed.
- Time search is not possible with SACDs, CDs and MP3s.
- When performing DVD or Video CD time search, playback may start from a slightly different time than that specified.
- Time search is not possible during when the disc is stopped.
- Search using time search is not possible during PBC playback of Video CDs.
- PAL displays 25 frames per second, numbered 0–24, NTSC displays 30 frames per second, numbered 0–29. The Frame Search option in the Video 1 menu must be [On] to use this.
- In the case of multiple layered SACDs, track 01 does not always indicated the first song on the disc.

■ To perform a direct title or chapter/track search using the number buttons

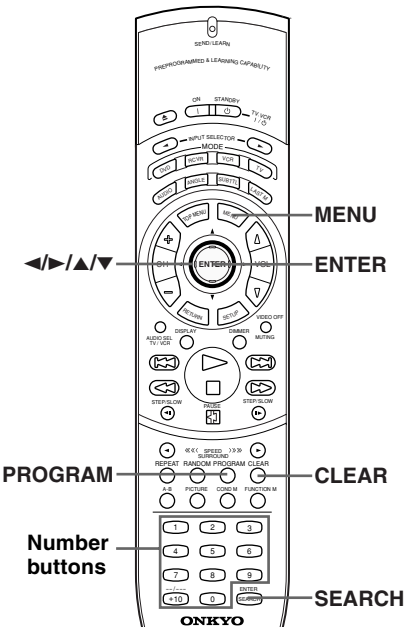
- Press the number buttons while the disc is stopped to select a title or track number.
- Press the number buttons while the disc is playing to select a chapter or track number.
  - To select number 3, press 3.
  - To select number 10, press 1 and 0.
  - To select number 37, press +10, +10, +10 and 7.

■ Playing bonus groups of DVD-Audio

Some DVD-Audio may include an extra content called “Bonus Group”.
If you select it to play, a display appears to enter a key number. Press the number buttons on the remote control to enter the key number.
When the number is entered correctly, playback of the bonus group starts.
To get key numbers, refer to instruction note of discs.

Notes

- A key number may be called in some cases such as when removing the disc. Enter the key number again if necessary.
- When you use a bonus group in a programmed play such as memory playback, enter the key number beforehand.



MP3

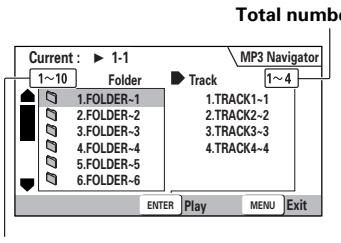
Using the MP3 Navigator

Use the MP3 Navigator to make searching for the track(s) you want to play easier. You can also use it to add or clear tracks from the program list.

1 Load a CD-R/CD-RW containing MP3 tracks.

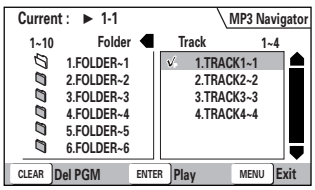
2 Press MENU to enter the MP3 Navigator screen.

The left side of the screen shows a list of folders containing MP3 tracks.



If you display the MP3 Navigator when a disc is playing, the currently playing folder and track numbers are shown at the top left of the screen.

On the right side is a list of MP3 tracks from the first title in the list.

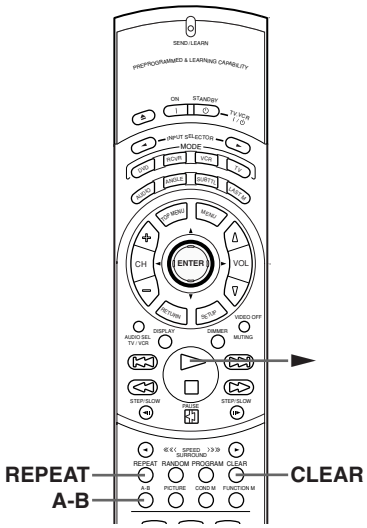


■ Navigate using the following controls

Cursor buttons (◄/►)	Select folder and tracks from the current screen.
Cursor buttons (▲/▼)	Select the previous/next of folders and tracks. To move rapidly up or down a long list of folders or tracks, press and hold the Cursor buttons (▲/▼).
ENTER	Play the currently selected folder or track. MP3 tracks that are unplayable on this system are automatically skipped and the display shows “UNPLAYABLE MP3 FORMAT”.
MENU	Exit the MP3 Navigator
PROGRAM	Add the currently selected track to the program list. (Tracks in the program list are marked ✓P.) Pressing PROGRAM repeatedly will add the track to the program list repeatedly.
	See “Programming MP3s” on page 35 for how to use program play.
CLEAR	Clear the currently selected track from the program list.

Repeat Play

You can repeat an entire title, group, folder, chapter or track, or just a part.



DVD VCD CD SACD MP3

Repeating a Title, Group, Folder, Chapter or Track

Repeat play of a chapter/track

DVD MP3

Press REPEAT once during playback of the chapter or track you want to repeat.

Repeat play of a title/group/folder

Press REPEAT twice during playback of the title you want to repeat.

Repeat play of a disc

VCD CD SACD

Press REPEAT twice during playback of the disc you want to repeat.

MP3

Press REPEAT three times during playback of the disc you want to repeat.

■ To repeat a program

Press REPEAT once during program playback to repeat the program.

■ To cancel repeat play

Press CLEAR. Playback continues, but the repeat function is canceled.

DVD VCD CD

Repeating a Specific Segment

Repeat play of a specified section

Press A–B at the beginning and end of the section you want to repeat.

- When A–B is pressed a second time, the disc returns to the location where A–B was pressed first and plays the selected section repeatedly.
- You can only perform A–B repeat within the same title, chapter, or track.

Return to a specified location on a disc

1 Press A–B at the desired location.

2 When you want to return to the specified location, press ►.

■ To cancel A–B repeat play

Press CLEAR. Playback continues, but the repeat function is canceled.

■ To clear the specified location

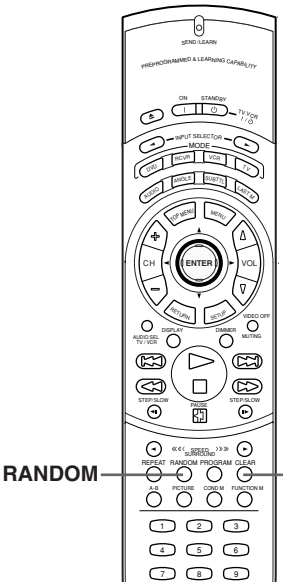
Press CLEAR to cancel repeat play or to clear the specified location that was set using A–B.

Notes

- Repeat of a specific section/Return to a specific section is unavailable for SACD discs.
- With some DVD discs, there may be times when repeat playback is not possible. In these cases, the mark will appear on the screen.
- With Video CDs, repeat play is not possible when the menu is displayed (PBC playback). To perform repeat play, start playback without displaying a menu by pressing the track number to be repeated when the disc is stopped, and then press REPEAT.
- You cannot use A-B repeat when listening to an MP3.
- If you switch camera angle during repeat play, repeat play is cancelled.

Random Play

Play titles, groups, chapters, or tracks on a disc in random order.



DVD VCD CD MP3

Playing in Random Order

RANDOM

Random playback of chapters within one title or tracks within one group

Press RANDOM once.

"Random Chapter" appears on the screen, and chapters within the title will be played back in random order.

Random playback of titles or groups

Press RANDOM twice.

"Random Title" appears on the screen, and titles will be played back in random order.

Random playback of tracks

Press RANDOM.

"Random" appears on the screen, and random playback begins.

■ To change titles, chapters, or tracks during random play

- Press ►►I or RANDOM and the next randomly selected title, chapter, or track starts playing.
- Press I◄◄ and playback of the current title, chapter, or track starts again from the beginning.

■ To stop random play

Press CLEAR. This returns you to normal playback of chapters/tracks in order from the chapter/track currently playing.

Notes

- With Video CDs, random play is not possible during playback when the menu is displayed (PBC playback). To perform random play, start playback without displaying a menu by pressing a track number button while in the stop mode, and then press RANDOM.
- Random play of programmed chapters/tracks is not possible.
- In the case of DVDs, random playback may not be possible with some discs.
- Repeat playback of random playback is not possible. In these cases, the mark will appear on the screen.
- Random playback for SACD is unavailable.

Playing in a Favorite Order

You can combine your favorite titles, groups, folders, chapters or tracks and play them in any order.

DVD

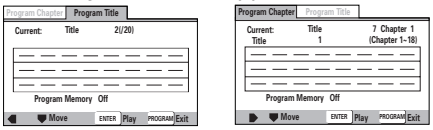
Programming DVDs

A program with a maximum of 24 steps can be memorized.

1 PROGRAM

Press PROGRAM.

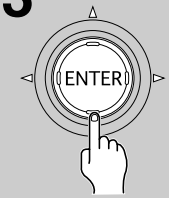
The Program screen appears.



2

Use the cursor buttons (◄/►) to select either [Program Chapter] or [Program Title].

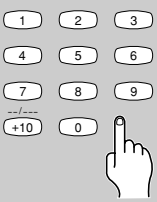
3



Once the program type is selected. Use the cursor button (▼) to enter the program window.

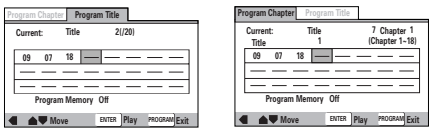
When [Program Chapter] is selected, you must also select what title the chapters to be programmed are in. Use the cursor button (▲) to highlight [Title] and then use the number buttons to enter the title number to be used.

4

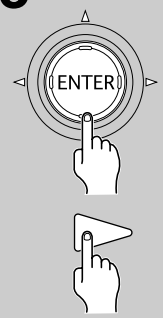


In the program window, use the number buttons to enter the numbers of the titles or chapters in the order you want to program them in.

- To program DVD titles/chapters 9, 7, and 18 in order, press 9, 7, +10 and 8.



5



Press ENTER or ►.

- Playback starts in the set order.
- Press PROGRAM to return to the previous display. The program will not begin until ► is pressed.

■ To program a pause in a program

Press ⏸ instead of a number button.
"II" appears on the screen and the pause can be programmed.
A pause cannot be programmed as the first or last position in a program, and two or more pauses cannot be programmed in succession.

■ To delete a number

Use the cursor buttons (▲/▼/◄/►) to highlight the incorrect number and then press CLEAR.
The number is deleted. If the number was before another number, the later numbers are reordered automatically.

■ To insert a number

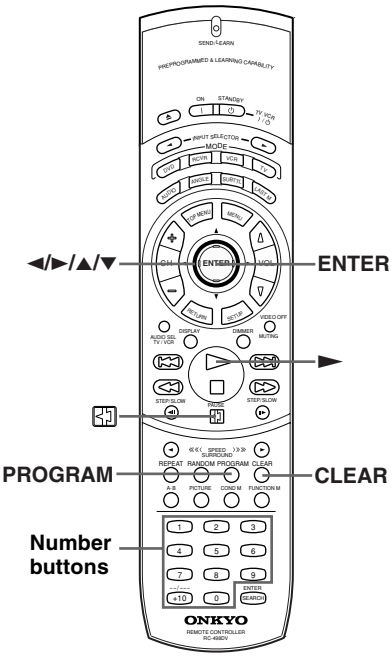
Use the cursor buttons (▲/▼/◄/►) to highlight the number to be placed after the new number and then press the number button(s) of the number to be inserted.
The new number is inserted before the previously selected number.

■ To stop program play

Press ■.

Notes

- When programming chapters, chapters not programmed may appear on the screen. This is not a malfunction.
- Programming may not be possible with certain DVD discs. On these types of discs, the 🚫 mark will appear on the screen when programming is attempted.
- Only chapters within the same title can be programmed during chapter programming.
- You cannot program while menu or top menu is displayed.



MP3

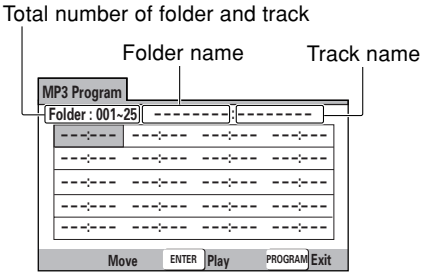
Programming MP3s

A program with a maximum of 24 steps can be memorized.

1 PROGRAM

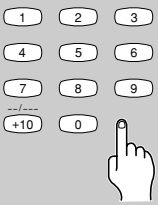
Press PROGRAM to enter the [MP3 Program] screen.

If you added tracks to the program list from the “Using the MP3 navigator” on page 31, the tracks are displayed here.



From this screen you can enter folder and track numbers directly to build up a program list.

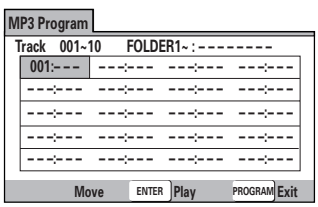
2



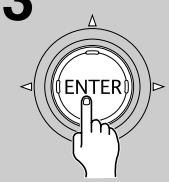
Use the number buttons to enter a three-digit folder number.

The number of folders on the disc is displayed in the top-left of the screen.

Once you’ve entered a valid folder number, the name of the folder appears.



3



Press ENTER.

The list will begin playback in the programmed order.

Press PROGRAM to exit the [MP3 Program] list with out playback.

Note

You can also use the MP3 Navigator to program tracks (page 31).

■ Navigate using the following controls

Cursor button	Navigate the program list.
CLEAR	Clear the currently selected item in the program list.
ENTER	Start playing the program list.
PROGRAM	Exit the [MP3 Program] screen.

Playing in a Favorite Order

VCD CD SACD

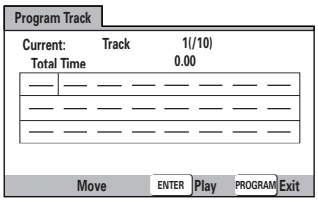
Programming Video CDs, CDs, SACDs

A program with a maximum of 24 steps can be memorized.

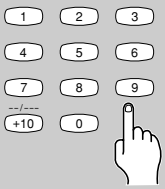
1 PROGRAM

Press PROGRAM.

The program screen appears. When a SACD, Video CD or CD is loaded, the cursor appears in the program window.



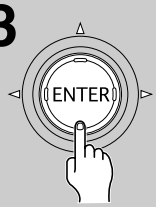
2



Use the number buttons to enter the numbers of the tracks in the order you want to program them in.

- To program tracks 9, 7, and 18 in order, press 9, 7, +10 and 8.
- To edit the program, refer to the procedures on the previous page.

3



Press ENTER or ►.

- Playback starts in the specified track order.
- To stop the program play, press ■.

Notes

- To program a pause, or to add or delete a number, refer to the procedures for “Programming DVDs” on page 34.
- You cannot program when playing a Video CD using menu selections (during PBC).
- You cannot program SACD tracks numbered greater than 100.

DVD VCD CD SACD MP3

Additional programming options

After you have made a program, it is then possible to confirm, add, or clear the contents of the program.

■ To confirm the contents of a program

On a CD or Video CD track program, press PROGRAM to confirm.

The program screen displays the current program.

On a DVD, select the program type (title, group, chapter or track) with the cursor buttons (◄/►).

The current DVD title, group, chapter or track program can then be confirmed on the appropriate program screen.

■ To add to a program

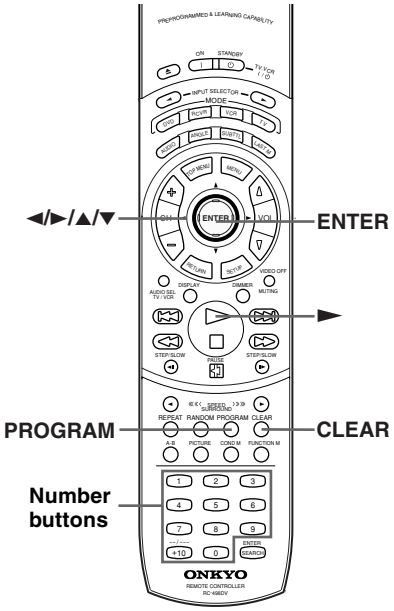
1 Press PROGRAM.
2 Press a number button to add a new title, group, chapter, or track at the end of the program.
3 Press PROGRAM to exit the program screen.

■ To delete a program

1 Press PROGRAM.
2 Select the program with the cursor buttons (◄/►), then press CLEAR.
3 Press PROGRAM to exit the program screen.

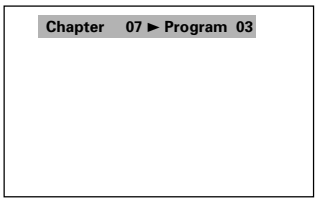
Notes

- The complete program will be deleted even if the disc tray is open or power off (standby).
- Pressing CLEAR when the disc is stopped will clear all programs.



■ To add a title/group/chapter/track to a program

Press and hold PROGRAM for about 2 seconds.
The current title/group/chapter/track number appears on-screen together with the program step number. If there isn't already a program then a new one will be created.



■ To confirm the contents of a program

Press PROGRAM.

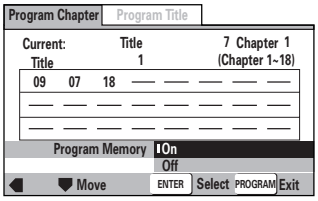
Notes

- When using this function to program DVDs, the program being created corresponds to the Program screen (chapter or title) that appears when PROGRAM is pressed. Be sure to check that the appropriate program type is selected.
- You cannot make a program containing chapters in different titles.

■ To save a program in memory

This player can memorize the programs on up to 24 DVD-Video discs. By turning the [Program Memory] to [On], the player will save your program and recall it the next time you use the same DVD. When the program memory exceeds 24, programs will be erased in chronological order from the oldest program in memory.

1 Use the cursor button (▼) to highlight [Program Memory] and use the cursor button (►) to select [On].



2 Press ENTER.
The program is saved in memory.

Note

When a DVD with a program stored in memory is loaded, program playback may start automatically.

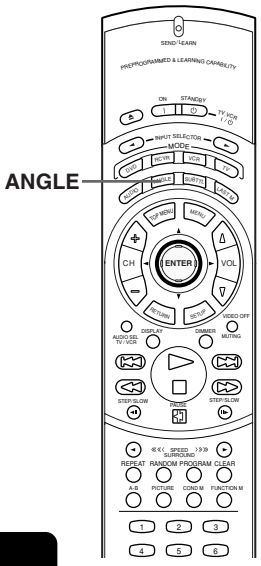
■ To erase a program saved in memory

The player erases programs in chronological order when the maximum number of programs that can be held in memory is exceeded. To prevent the player from erasing older programs that you may still use regularly, or when you don't want to use a program anymore, it is possible to manually erase programs stored in memory.

1 Load a DVD that has a program stored in memory.
2 Press PROGRAM.
The program screen appears.
3 Use the cursor button (▼) to highlight [Program Memory] and use the cursor buttons (►/▼) to select [Off].
4 Press ENTER.
The program is cleared from memory.

Selecting the Camera Angle

You can select a camera angle when viewing DVDs with the multi-angle option.

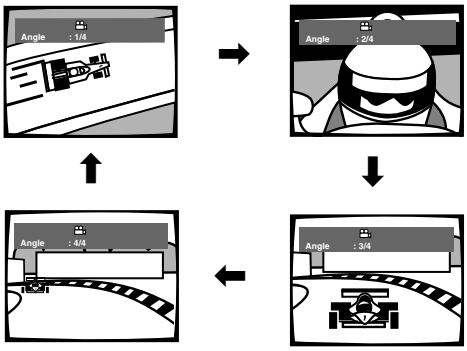


DVD-V

Viewing from a Desired Camera Angle (Multi-Angle)

Press ANGLE during playback.

The camera angle changes each time you press the button.



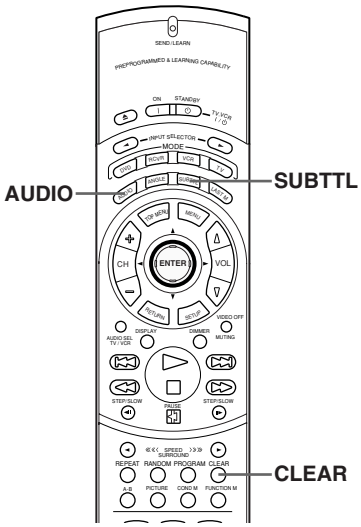
Notes

- You can use the Multi-Angle function only with discs featuring recordings of images shot from different camera angles.
- During Multi-Angle playback, the indicator in the display lights.
- For some discs, selection can be made using the DVD menu. In this case, press MENU to display the DVD menu screen and then make your selection.
- If you change the camera angle during still playback, the DVD player resumes normal playback.

■ To check whether or not a disc is recorded with angles

The jacket of discs that are recorded with angles will be marked with . When locations on discs that are recorded with angles are played back, the indicator can be displayed.
To cancel the angle mark, set [Angle Indicator] to [Off] in the Setup screen Video menu (page 56).

Selecting the Audio/ Subtitle Language



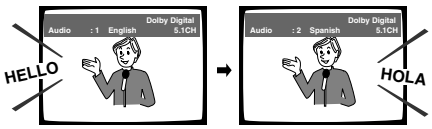
DVD-V

Changing the Audio Language (Multi-Language Function)

Dolby Digital, PCM, and other audio data can be recorded on DVDs in a number of languages or audio tracks, letting you choose the desired language or audio.

Press AUDIO repeatedly to select the desired language.

Pressing AUDIO once displays the currently selected language. Subsequent presses rotates through the audio languages available on the DVD.



Notes

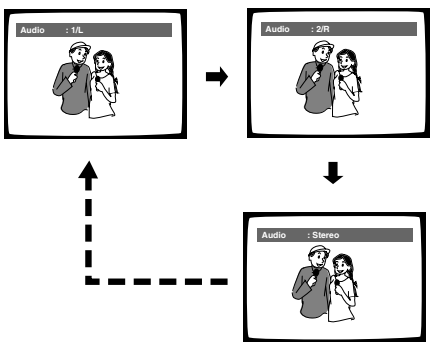
- You cannot switch languages if there is only one language recorded on the disc.
- Switching the audio language may not be possible with some titles. In this case, the mark is displayed.
- For some titles, selection can be made using the DVD menu. In these cases, press MENU to display the DVD menu screen and then make your selection.
- When you erase the resume position or replace a disc, the DVD player returns to the automatic setting in the setting menu (page 57).

■ Changing Audio Type

For enjoyment of karaoke or similar format Video CDs, CDs and MP3s, it is possible to select stereo audio, or either right or left channel mono depending on the requirements of the source.

Press AUDIO repeatedly during playback to switch the audio type.

Audio output changes from [1/L] (Left channel) to [2/R] (Right channel) to [Stereo].



Note

With karaoke and other discs, set the appropriate audio type for singing and accompaniment after referring to information on the disc jacket or accompanying material.

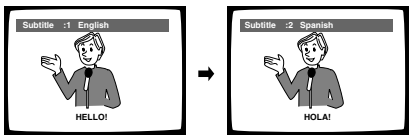
DVD-V

Selecting a Subtitle Language (Multi-Language Subtitles)

You can select a desired subtitle language with DVDs that have subtitle data in multiple languages recorded on them.

Press SUBTTL (subtitle) repeatedly during playback.

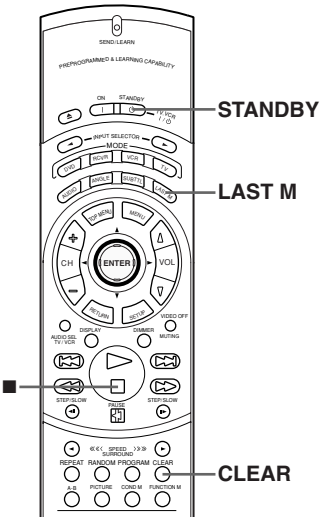
Pressing SUBTTL once displays the currently selected subtitle language. Subsequent presses rotates through the subtitle languages available on the DVD.



Notes

- The subtitle language cannot be switched if the subtitle language is not recorded, or if only one language is recorded.
- Switching the subtitle language may not be possible with some discs. In this case, the mark will be displayed.
- To clear subtitles during playback, press SUBTTL and then press CLEAR, or press SUBTTL until [Off] appears.
- For some discs, subtitle language selection can be made using the menu on the DVD. In this case, press MENU to display the DVD menu screen and then make your selection.
- When you erase the resume position or replace a disc, the DVD player returns to the automatic setting in the setting menu (page 58).

Continuing Playback from a Specified Location (Last Memory)



The Last Memory function is convenient when you want to continue viewing a disc from the point where you were watching before. Unlike the resume function, the Last Memory function is effective even if the DVD is removed from the player (Last Memory locations saved for Video CDs are effective only if the disc remains loaded in the player).
Last Memory may not work reliably with some Video CDs that feature PBC.

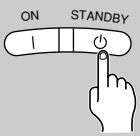
DVD-V VCD

Memorizing a Last Memory location to return to later

1

Press LAST M during play.

The “LAST” indicator lights on the player and “Last Memory” is displayed on the screen.

2 

Press STANDBY to turn the power to standby, or stop playback with ■.

Once memorized, the memorized point will be recalled even if the power is turned off, or if the disc is ejected. Points on up to 5 discs can be memorized, and those points are recalled the next time any of the discs are played back.

- A Last Memory point can be memorized for only one disc at a time as the function is only effective until the Video CD is removed from the player.

DVD-V VCD

Resuming playback from where LAST MEMORY was pressed

1

Load a disc that has a Last Memory point memorized.

Some DVDs will start playback automatically when loaded. In this case, press ■ to stop playback.

2

Press LAST M while in the stop mode.

The disc begins playback at the memorized point.

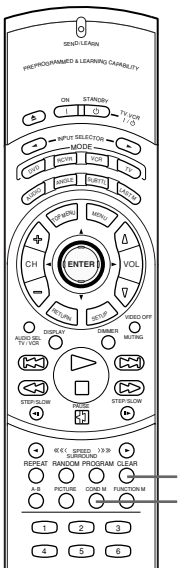
- Last Memory mode may not function for some DVDs.
- You can use Last Memory for up to five discs (after that the one used least recently is deleted to make space for a new one).
- Even with a disc you have memorized with Last Memory, playback begins at the start of the disc if you press ►.
- This function is for playback of DVDs or Video CDs only. You cannot use it with CDs and MP3s.

■ To clear the Last Memory location

1 Load a disc that has a Last Memory point memorized.
Some DVDs will start playback automatically when loaded. In this case, press ■ to stop playback.
2 Press LAST M while in the stop mode.
The disc begins playback at the memorized point.
3 Once the picture appears, press LAST M again.
4 While “Last Memory” is displayed on the screen, press CLEAR. The “LAST” indicator disappears from the display.

Memorizing Settings for Often Viewed DVDs (Condition Memory)

You can store in memory settings for DVDs you often watch. Settings remain in memory even if you remove the disc from the player, or switch power to the player to standby. If you load a disc that has its settings memorized, "COND" appears in the display. When you start playing the disc, the memorized settings are automatically recalled.



DVD-V

Memorizing Settings for DVDs

Press COND M during playback.

Settings are memorized for the disc currently playing.

The following six settings are memorized:

On Screen Display (page 56)

Video Adjust (page 54)

Multi-Angle (page 38)

Multi-language (pages 57)

Multi-Language subtitles (page 39, 58)

Parental Lock Level (page 61-62)

"Condition Memory" is displayed on screen. "COND" illuminates in the display to indicate that settings have been memorized.

■ When a disc that has memorized settings is loaded

"Condition Memory" will appear on the screen, and the previously memorized settings will be selected.

■ Erasing the recorded contents

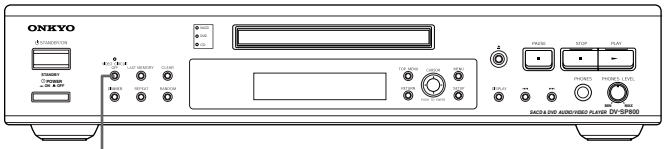
Load a disc that has memorized settings, and press CLEAR while "Condition Memory" is being displayed. The disc's recorded data will be erased.

Notes

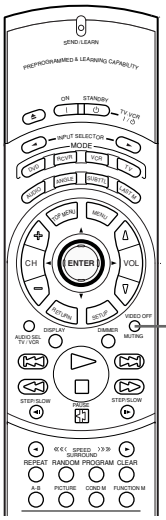
- Settings are stored in memory for use any time.
- You can use Condition Memory for up to 15 discs (after that the one used least recently is deleted to make space for a new one).
- If you make changes to any of the settings memorized in Condition Memory, press COND M during playback to memorize new settings.
- Switching of the multi-language mode etc., is automatic on some discs.

Turning Off the Video Signal Output

The DVD Player can be set playing audio exclusively. In this case, you can obtain sound of better quality, as the DVD Player does not process video signals. (All the video output jacks send no video signals.)



VIDEO CIRCUIT OFF



DVD-V

Switching the video signal off

Press VIDEO CIRCUIT OFF on the DVD Player repeatedly.

The VIDEO CIRCUIT OFF indicator lights up.

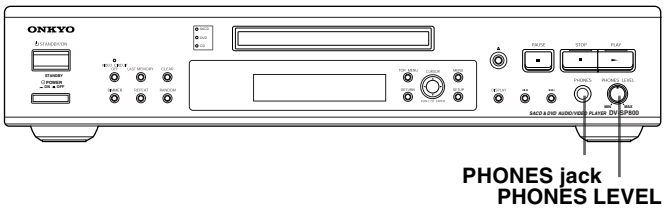
To turn on the video circuitry, press the button again.

Notes

- Some discs cannot be played without some on-screen menu interaction. If this is the case, be sure to perform the on-screen procedures as indicated before turning off the video signal processing circuitry.
- The VIDEO CIRCUIT OFF setting is canceled whenever the DVD Player is turned off.

Listening through Headphones

You can connect stereo headphones to the DVD Player.

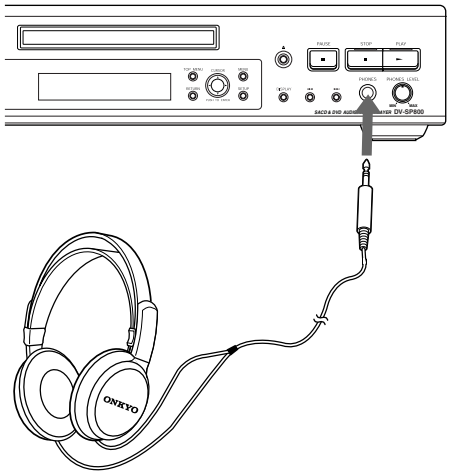


DVD VCD CD SACD MP3

Listening through Headphones

PHONES

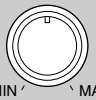
Connect the plug of the stereo headphones to the PHONES jack on the DVD player.



DVD VCD CD SACD MP3

Adjusting the phones level

PHONES LEVEL



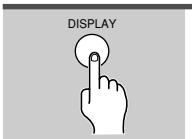
Turn the dial clockwise to increase the phones level and counterclockwise to decrease it.

Viewing Disc Information

Use DISPLAY to get current information about the disc currently loaded. You can get information about the titles and chapters on a DVD-Video, groups and tracks on a DVD-Audio or tracks on a SACD, Video CD or CD or folders and tracks on a MP3. When viewing DVDs, you can also check the digital bitstream transmission rate.

DVD VCD CD SACD MP3

Viewing Disc Information during while a disc is playing



Press DISPLAY during while a disc is playing. Press DISPLAY repeatedly to change the information being displayed.

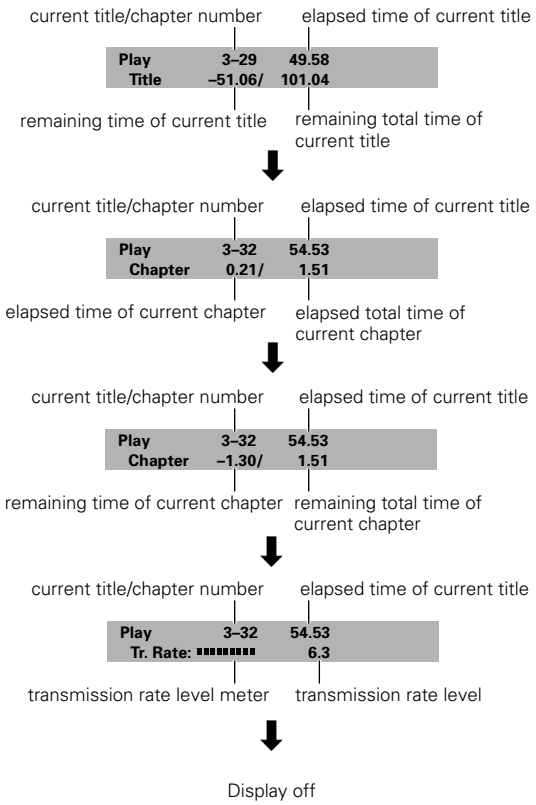
The disc information is displayed superimposed over the video image on the screen.

Press and hold DISPLAY to display the time remaining on the disc.

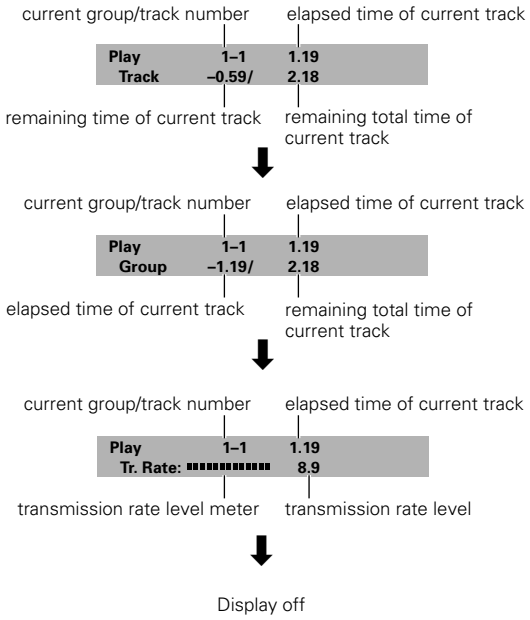
When you release the button, the information disappears.

The display changes for each type of disc as follows each time the button is pressed.

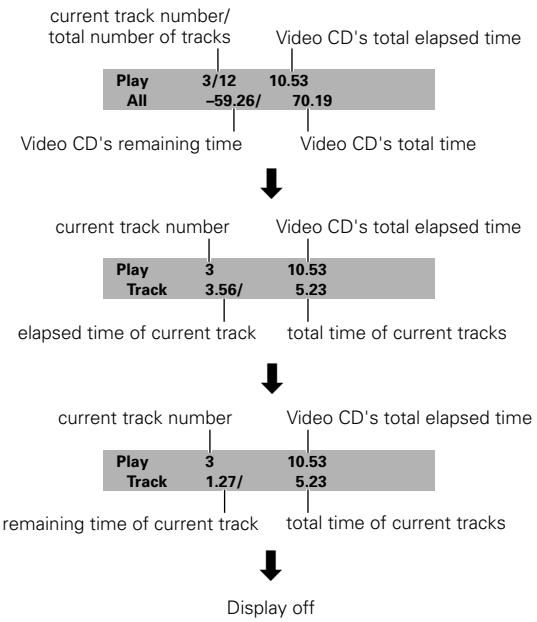
DVD-Video



DVD-Audio



Video CD (with PBC disabled)

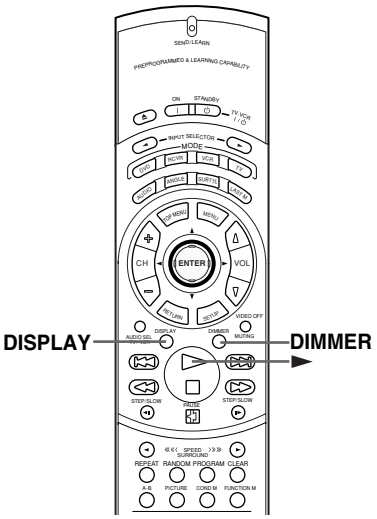

current track number/ total number of tracks
Video CD's total elapsed time
Play 3/12 10.53
All –59.26/ 70.19
Video CD's remaining time
Video CD's total time
current track number
Video CD's total elapsed time
Play 3 10.53
Track 3.56/ 5.23
elapsed time of current track
total time of current tracks
current track number
Video CD's total elapsed time
Play 3 10.53
Track 1.27/ 5.23
remaining time of current track
total time of current tracks
Display off

Notes

- The transmission rate level displays the amount of picture information recorded on DVDs. Higher amounts of transmission data indicate higher amounts of picture information, but does not necessarily mean a higher quality picture.
- If a 24 frame progressive video signal is programmed, it will be displayed.

■ Using DIMMER function

Press DIMMER to change the display brightness.
Each time DIMMER is pressed, the display brightness of the unit changes as shown below.
Normal → Dim → Very Dim → Display Off → Normal
While the display is off, if you perform a button operation, the display momentarily switches to Very Dim.



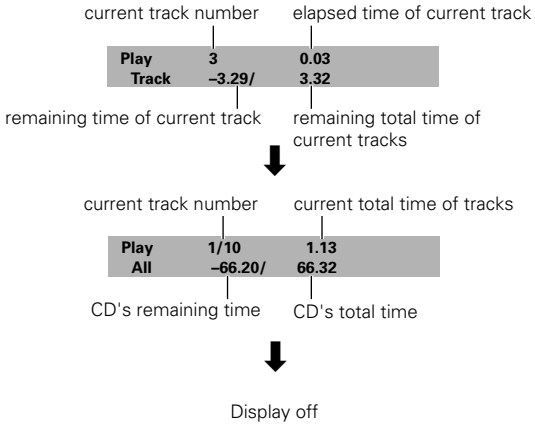
DVD VCD CD SACD MP3

Viewing Disc Information during while a disc is stopped

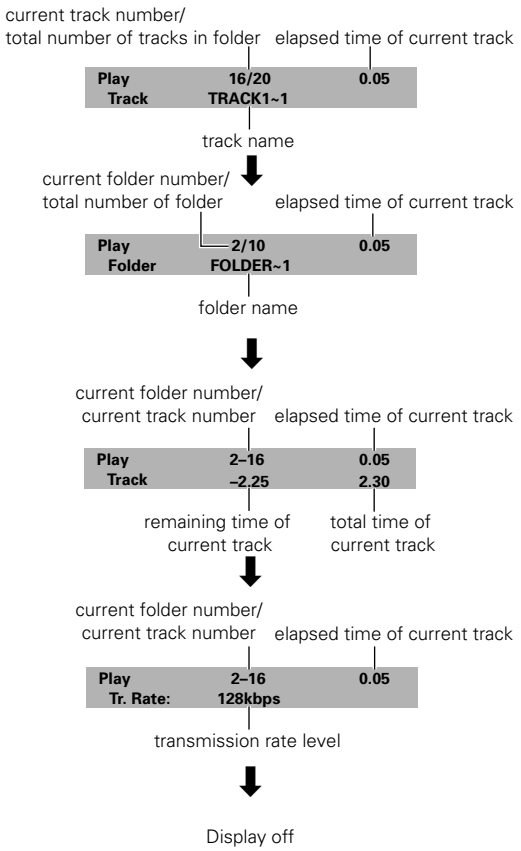
Press DISPLAY during while a disc is stopped to display DVD title and chapter information or Video CD and CD track information or MP3 folder and track information. Press DISPLAY again to turn the display off.

Information about the titles and chapters or folders and tracks on a disc is displayed. When the information exceeds the space on the screen, use the cursor buttons (◄/►) to move to other screens.

SACD/CD



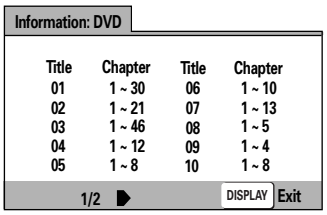
MP3



Notes

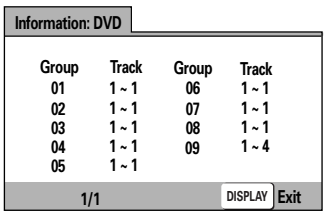
- Depending on the format and type of disc being used, not all screens may be displayed.
- When playing Video CDs in PBC mode or unfinalized CD-Rs not all the above information is displayed.

DVD-Video



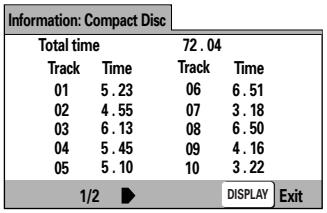
Titles and number of chapters in each title

DVD-Audio



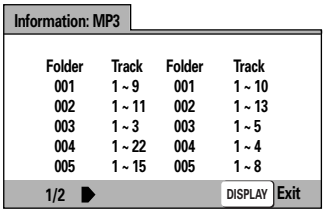
Groups and number of tracks in each group
Before inputting the key number, the bonus group will be displayed in gray.

Video CD, SACD and CD



Total playing time of disc, tracks and track times

MP3



Folders and number of tracks in each folder

Adjusting Audio and Video Settings

The procedure on this page describes how to operate the menus on the Setup screen. These menus are used to set and adjust a number of system settings. The various functions that can be adjusted are covered throughout this manual. The procedure on this page provides a basic outline for using the Setup screen menus.

Using the Setup Screen Menus

1

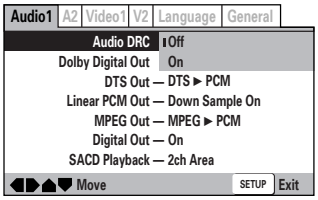
Press ON (STANDBY/ON on the front panel).

2

Press SETUP.

The Setup screen appears.

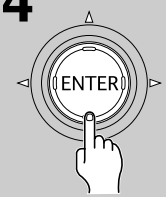
Example



3

Use the cursor buttons (◄/►) to select the menu you want.

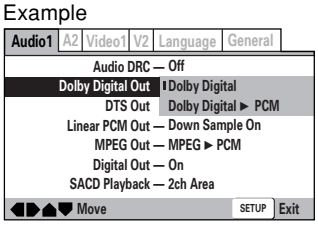
As each menu is selected with the cursor, the settings appear below the menu heading.

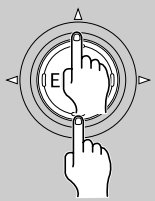
4 

Use the cursor buttons (▼) to enter the menu.

The top item within the menu becomes highlighted.

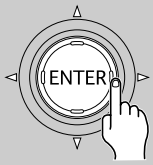
Example



5 

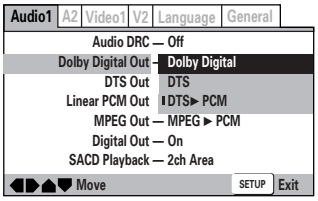
Use the cursor buttons (▲/▼) to select the setting you want to change.

The options available for each setting appear to the right when the setting is selected. The current setting appears with the setting indicator lit.

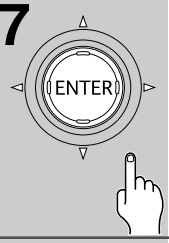
6 

Use the cursor buttons (►) to enter the setting options.

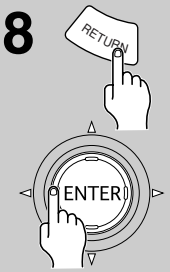
Example



- Not all menu options can be changed while a disc is playing. In these cases, the options appear grayed out on the screen and cannot be adjusted. To change these settings, press ■ first before pressing SETUP.
- Operating the menu after pressing ■ may cancel the resume function.
- Some menu options are not immediately effective if set while a disc is playing. To make these settings effective, stop playback and then start again, or change the settings while the disc is stopped.

7 

Use the cursor buttons (▲/▼) to select a new setting and press ENTER to set the new setting in memory.

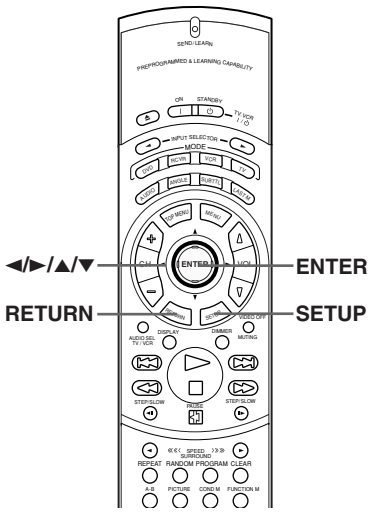
8 

Press RETURN or the cursor button (◄) to exit the options without making any changes.

9

Press SETUP to close the Setup screen.

The Setup screen closes.



■ When setting up for the first time

It is recommended to set up player using the Setup Navigator (page 22). If you selected [Auto Start Off] when the Setup Navigator appeared, you may still set up the player using the Setup Navigator in the General menu screen.
If you choose not to use the Setup Navigator, be sure to make the necessary settings in the Setup screen Audio 1, Audio 2, Video 1, Video 2 and Language menus as described on the following pages.
Some DVDs start playing automatically when loaded in the player. If a DVD has been loaded, be sure to press ■ before proceeding.

Note
The next time you press SETUP, you'll see the menu screen that you exited from last time.

■ How to interpret the setting indicator colors in the Setup screen menus

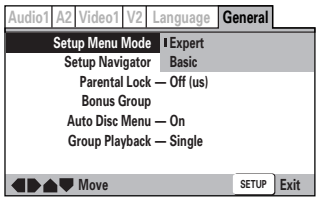
When setting up the system, or when making adjustments, it is convenient to know what settings are applicable to the different disc formats. When the settings appear for each menu option, the currently selected setting appears with the setting indicator highlighted in one of three colors: blue, orange or yellow. These colors correspond to what formats the menu option effects as shown in the table below.

Color of indicator	Disc format(s)
Blue	DVD only
Orange	SACD/DVD-Audio/CD
Yellow	DVD/Video CD
Green	All compatible formats

Notes
- If a setting applicable only to DVDs is changed while a SACD, Video CD or CD is loaded, a blue DVD icon appears in the upper right hand corner of the screen to indicate that the setting is not applicable to the currently loaded disc. The setting will be effective the next time a DVD is loaded.
- If you turn off the DVD player during setup, the settings are canceled. Press SETUP to finish the setup.
- The memorized resume position may be erased by setup.
- The Setup screen always shows the latest settings.

Changing to the Setup Screen "Expert" Menu Mode

The Setup screen menus are divided into two levels, [Basic] and [Expert], to make this unit more convenient to operate for different levels of users. The [Basic] menu mode contains functions that may be considered necessary for the basic operations of this player and helpful on-screen information identified by the ⓘ mark. The [Expert] menu mode adds to the [Basic] menu mode additional functions of the player that can be adjusted to further personalize performance of the player.
In this manual, functions that are contained in the [Expert] menu mode are identified by the Expert icon.
Make changes to the [Setup Menu Mode] setting in the Setup screen General menu.

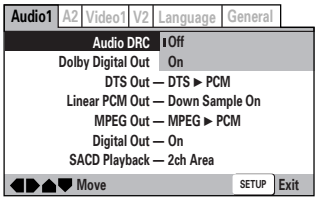


Settings: **Expert** (Factory setting)
Basic

Note
On-screen information only appears in the [Basic] menu mode.

Adjusting the Dynamic Range of the Audio Soundtrack

Audio DRC stands for Audio Dynamic Range Compression. When [Audio DRC] is [On], soft sounds such as dialog can be heard more clearly without making loud sounds even louder. When [Audio DRC] is set to [Off], there is no effect on the audio source.
Make changes to the [Audio DRC] setting in the Setup screen Audio menu.



Settings: **Off** (Factory setting)
On

Notes

- Audio DRC is only effective with Dolby Digital audio sources.
- The level of Audio DRC may differ depending on the DVD.
- If you have set the [Dolby Digital Out] to [PCM] and the [Digital Out] setting to [On], the Audio DRC effect is output through the digital out jack.
- The effect of Audio DRC depends on your speakers and AV amplifier settings.

Setting the Audio 1 Options

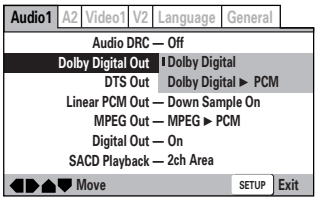
This player is capable of digital audio output for Dolby Digital, DTS, MPEG, and signals with a sampling rate of 96 kHz. Make settings in the Setup screen Audio menu to reflect the capabilities of the components that you have made digital connections to.

Notes

- If you have already completed the Setup Navigator screen operations, the settings on this page have already been set by the player.
- If you have made only stereo line connections (analog) using the supplied audio cord, it is not necessary to make any changes in this menu.

■ Dolby Digital Out

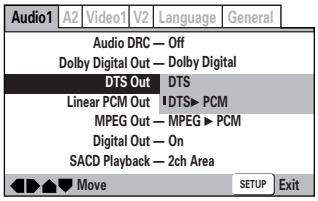
This player is capable of outputting the Dolby Digital surround sound audio signal. If the player is connected to an AV component that has a built-in Dolby Digital decoder, select [Dolby Digital]. This player can also convert the Dolby Digital signal to a digital Linear PCM signal, the same digital signal output from a CD. Select [Dolby Digital ► PCM] if you have made connections to an amplifier or receiver with a Dolby Pro Logic decoder or a Digital Analog Converter (DAC).



Settings: **Dolby Digital** (Factory setting)
Dolby Digital ► PCM

■ DTS Out

This player is capable of outputting DTS digital audio for DVDs recorded in DTS. If this player is connected to an AV component that has a built-in DTS decoder, select [DTS]. If your system is not equipped to decode DTS, select [DTS ► PCM]. Refer to the operating instructions supplied with your audio components if you are unsure about compatibility with DTS.



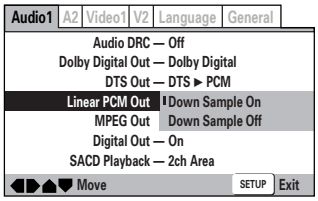
Settings: **DTS**
DTS ► PCM (Factory setting)

Note

If you have made digital audio connections to component(s) not equipped to decode the DTS digital bitstream, be sure to select [DTS ► PCM]. DTS signals are converted to Linear PCM signals then output. If a DTS signal is output without decoding, the output is digital noise that could potentially cause damage to your speakers.

■ Linear PCM Out

If your AV amplifier (or other connected component) is compatible with high sampling rates (96 kHz), set this to [Down Sample Off], otherwise set it to [Down Sample On] (96 kHz audio is converted to a more compatible 48 kHz/44.1kHz). Check the manual that came with the other component if you're unsure whether it is 96 kHz compatible.


Audio1 A2 Video1 V2 Language General
Audio DRC — Off
Dolby Digital Out — Dolby Digital
DTS Out — DTS ► PCM
Linear PCM Out Down Sample On
MPEG Out Down Sample Off
Digital Out — On
SACD Playback — 2ch Area
Move
SETUP
Exit

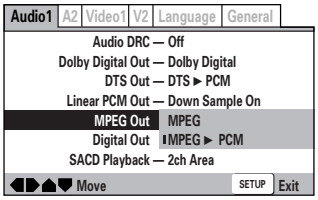
Settings: **Down Sample On** (Factory setting)
Down Sample Off

Notes

- On DVDs that contain copy protection, the 96 kHz signal may only be output from the analog audio jacks.
- Even when set to [Down Sample Off], some discs will be down mixed to 48 kHz/44.1 kHz and not output digitally.
- High sampling rate DVD audio discs (192 kHz or 176.4 kHz) always output audio down sampled to 96 kHz or 88.2 kHz through digital outputs.

■ MPEG Out

This player is capable of outputting the MPEG digital bitstream. If the player is connected to an AV component that has a built-in MPEG decoder, select the [MPEG] setting. Otherwise, select [MPEG ► PCM] to convert the digital signal to the PCM signal, (the digital signal output from a CD).


Audio1 A2 Video1 V2 Language General
Audio DRC — Off
Dolby Digital Out — Dolby Digital
DTS Out — DTS ► PCM
Linear PCM Out — Down Sample On
MPEG Out MPEG
Digital Out MPEG ► PCM
SACD Playback — 2ch Area
Move
SETUP
Exit

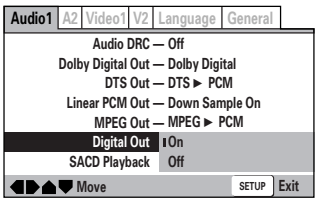
Settings: **MPEG**
MPEG ► PCM (Factory setting)

Note

- DVD audio does not allow for downmixing. In this case, digital audio will not be output.

■ Digital Out Expert

Depending on your preferences and the type of connections made, you may opt not to have the digital audio signal output at all. When this setting is set to [Off] there is no signal output from the digital audio output jacks.
Make changes to the [Digital Out] setting in the Setup screen Audio menu in the [Expert] menu mode (page 47).


Audio1 A2 Video1 V2 Language General
Audio DRC — Off
Dolby Digital Out — Dolby Digital
DTS Out — DTS ► PCM
Linear PCM Out — Down Sample On
MPEG Out — MPEG ► PCM
Digital Out On
SACD Playback Off
Move
SETUP
Exit

Settings: **On** (Factory setting)
Off

Note

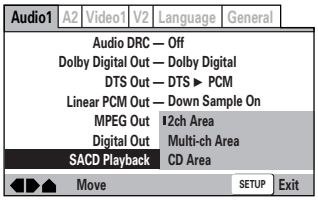
You cannot output SACD audio digitally.

Adjusting Audio and Video Settings

Setting the Audio 1 Options

■ SACD Playback Expert

SACD discs can be divided up into several different areas stereo audio, 5.1 channel audio and (for hybrid SACDs) standard CD audio. The SACD Playback setting enables you to select which area of the disc you want to play.


Audio1 A2 Video1 V2 Language General
Audio DRC — Off
Dolby Digital Out — Dolby Digital
DTS Out — DTS ► PCM
Linear PCM Out — Down Sample On
MPEG Out 2ch Area
Digital Out Multi-ch Area
SACD Playback CD Area
Move SETUP Exit

Settings: **2ch Area** (Factory setting)
Playback of the 2 channel area.
Multi-ch Area
Playback of the multi-channel area.
Set Audio Out to 5.1 Channel for multi-channel playback (see below).
CD Area
Playback of the CD layer.

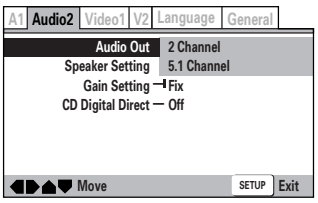
Note

If you select an area that isn't on the disc loaded, a different area of the disc will play. For example, if you choose standard CD audio but the disc loaded is not a hybrid SACD, the stereo audio will play.

Setting the Audio 2 Options

■ Audio Out

If you connected this player to your amplifier using the 5.1 channel analog outputs (front, surround, center and subwoofer outs), set this to [5.1 Channel]; if you connected only the stereo outs, set to [2 Channel].


A1 Audio2 Video1 V2 Language General
Audio Out 2 Channel
Speaker Setting 5.1 Channel
Gain Setting Fix
CD Digital Direct Off
Move SETUP Exit

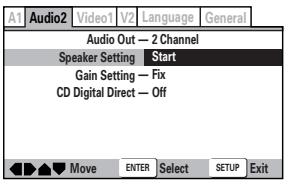
Settings: **2 Channel** (Factory setting)
5.1 Channel

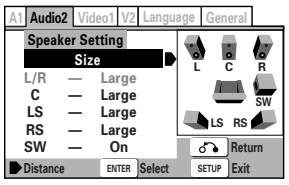
Notes

- Even if you set [Audio Out] to [5.1 Channel], you'll only get sound from all speakers when playing a multi-channel DVD-Audio disc, SACD or Dolby Digital, DTS or MPEG encoded DVD disc.
- If you set to 2 Channel, Dolby Digital, DTS and MPEG audio is mixed down to two channels so you still hear all the audio recorded on the disc.
- Some DVD-Audio discs don't allow down-mixing of audio. These discs always output multi-channel audio regardless of the setting made here.

■ Speaker Setting

You only need to make this setting if you connected this player to your amplifier using the 5.1 channel analog outputs.
Follow the on-screen displays to describe which speakers are in your system and their sizes and positions.
Set the size of your speakers in the Size screen. The front left/right (L/R) speakers have a fixed setting of [Large]. The center (C), left surround (LS) and right surround (RS) speakers can each be set to [Large], [Small] or [Off]. Set a speaker to [Large] if the main speaker cone is 12 cm or more; set to [Small] if the it's less than 12 cm. Note that the LS and RS speakers cannot be set independently.
The subwoofer (SW) can only be set to [On] or [Off].
The graphic on the right of the screen represents your speaker setup, with the currently selected speaker's name highlighted in blue, and the speakers set to [On] highlighted in yellow.
Set the distance from your main listening position to each speaker in the [Distance] screen. The distance setting for any speaker that was set to [Off] in the [Size] screen will be grayed out. For the other speakers, enter the distance to the nearest 0.1m (10cm). You can set the distance for the L/R speakers between 0.3m and 9m. Note that you must set the C and SW speakers within 2m of the L/R setting. The LS and RS speakers must be set within –6m and +2m of the L/R setting.
The graphic on the right of the screen represents your speaker setup, with the currently selected speaker's name highlighted in blue, and the speakers set to [On] highlighted in yellow.


A1 Audio2 Video1 V2 Language General
Audio Out — 2 Channel
Speaker Setting Start
Gain Setting — Fix
CD Digital Direct — Off
Move ENTER Select SETUP Exit



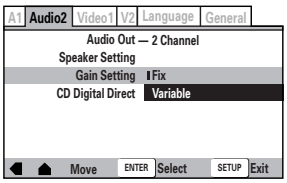
Factory Settings: **Center:** **Large**
Subwoofer: **On**
Surround: **Large**
Distance: **All 10FT** (USA models only)
All 3.0m (Other than USA models)

Notes

- When the subwoofer (SW) is set to on, the LFE (low frequency effect) signals are input from the subwoofer.
- When listening to a DVD audio source, the C, LS, and RS speakers will automatically be set to the [Large] size setting. However, the sound will not be affected by the change. Listening to another source will return the speakers to their original settings.
- For DVD-Audio only, if the C, LS, or RS speakers is set to [Off], the audio is automatically downmixed to stereo unless the DVD audio software does not permit down mixing.
- The distance setting is unavailable for SACD discs.

■ Gain Settings Expert

You may want to make this setting if you connected this player to your amplifier using the 5.1 channel analog outputs.
Under the default setting, all channels are output at the relative volumes they were recorded at. Change the setting to [Variable] if you want to adjust the relative volume levels of any of the speakers. Adjustment is in the range of –6dB to +6dB, in steps of 0.5dB.
When set to [Variable], the overall output level may sound quieter than when set to [Fix]. This is not a malfunction.

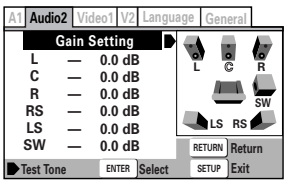

A1 Audio2 Video1 V2 Language General
Audio Out — 2 Channel
Speaker Setting
Gain Setting Fix
CD Digital Direct Variable
Move ENTER Select SETUP Exit

Settings: **Fix** (Factory setting)
Variable

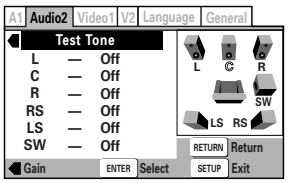
Notes

- Gain settings are not effective when playing a CD with CD Digital Direct set to [On].
- When set to [Variable], the overall output level is set to –6.0dB. Adjust the relative volume levels of [C (center)], [LS (left surround)], [RS (right surround)], and [SW (subwoofer)] in the range of –6.0dB to +6.0dB from the value. The maximum output level (+6.0dB) which is set to [Variable] is same as the output level when set to [Fix].
  Therefore, when set to [Variable], the output level sounds quieter than the output level when set to [Fix], in almost all cases.

When Variable is selected, the following screen appears:


A1 Audio2 Video1 V2 Language General
Gain Setting
L — 0.0 dB
C — 0.0 dB
R — 0.0 dB
RS — 0.0 dB
LS — 0.0 dB
SW — 0.0 dB
L C R SW LS RS
RETURN Return
Test Tone ENTER Select SETUP Exit

Press the cursor button (►) to display the Test Tone screen.



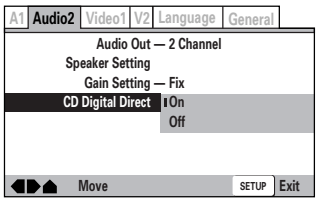
To help you gauge the correct gain levels, set the [Test Tone] to [On] (test tone from just that speaker) or [Auto] (test tone from each speaker in turn, excluding the subwoofer) then adjust the gain so that all speakers appear to be the same volume from your listening position.
Follow the on-screen displays to select speakers and set the channel levels.
Press the cursor (▲) to select [Test Tone], then press the left cursor button (◄) to select the Gain Settings.

- You can adjust the [Test Tone] setting only when the player is stopped.
- Many AV amplifiers allow you to make similar settings at the amplifier stage. In this case, set the channel levels at the player or the amplifier, not both.
- As the test tone plays through a speaker, its name is highlighted in yellow on-screen.

Note
You can't use the test tone function when the Audio Out setting is 2 Channel (see page 50).The test tone will not work with the disc tray open, or while a disc is playing.

■ CD Digital Direct Expert

Setting this to [On] increases CD audio quality by bypassing certain audio circuits in the player that audio signal would otherwise pass through. However, this must be set to [Off] for proper playback of DTS encoded CDs.

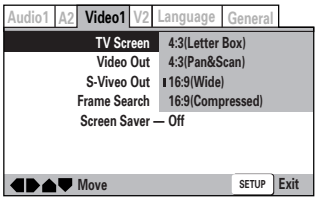


Settings: **On**
Off (Factory setting)

Note
If this setting is set to [On] when a DTS CD is playback, noise is produced.

Setting the TV Screen Size

The width-to-height ratio of conventional TVs is 4:3, while the width-to-height ratio of wide screen and high-definition TVs is 16:9. This width-to-height ratio is called the aspect ratio.
When viewing software recorded in different aspect ratios, the image's height to width ratio can be switched to match the TV or monitor being used.
Make changes to the TV screen size in the [TV Screen] setting in the Setup screen Video 1 menu. Please note that changes to the [TV Screen] setting cannot be made when a disc is playing. Stop playback of the disc before attempting to make any changes.



Settings: **4:3 (Letter Box)**
4:3 (Pan & Scan)
16:9 (Wide) (Factory setting)
16:9 (Compressed)

Notes

- If [Standard (4:3)] is selected in the Setup Navigator screen, [4:3 (Letter Box)] is selected on this screen. If you prefer the pan & scan format, change the settings on this screen.
- Whether the aspect can be switched or not depends on the disc. Please refer to the information written on the disc jacket, etc.
- Some discs may not include the screen format selected in the [TV Screen] setting. When this occurs, the standard TV screen format available on the disc is automatically selected.
- If your TV doesn't have settings to change the aspect ratio of the picture, set this player to [16:9 (Compressed)].

■ Differences in screen sizes and DVD formats

The number of screen size formats currently available can be somewhat confusing. If set incorrectly, the video presentation may not appear as it should. The following diagrams and descriptions are intended to help you set your TV screen size in a way that will allow you to fully enjoy the digital video of DVD.
The settings in the [TV Screen] setting are perhaps most applicable when the DVD you are watching is programmed in the wide screen format. If you have a standard TV, select either [4:3 (Letter Box)] or [4:3 (Pan & Scan)] based on your personal preference. If you have a wide screen TV, select [16:9 (Wide)].

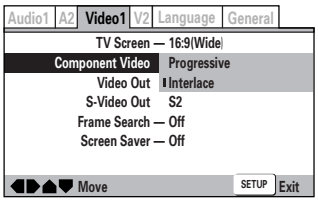
When viewing a wide screen TV or monitor	
DVD screen size format	**Setting and Appearance**
Wide screen format DVD Please note that there are some wide screen letter box formats that place black bars at the top and bottom of the screen. This is not a malfunction.	 **"Wide" setting**
Standard screen format DVD When viewing a standard screen format DVD on a wide screen TV, black bars may be automatically placed at the side of the screen to adjust to the DVD format.	 **"Wide" setting**
Standard screen format DVD (unnatural stretched effect) If you are viewing a standard screen format DVD on a wide screen TV, the picture may appear 'stretched' on the screen. To remedy this condition, change your wide screen TV to display a standard (4:3) screen. Refer to the instructions supplied with your wide screen TV or monitor for more information.	 **"Wide" setting**

When viewing a standard size TV or monitor	
DVD screen size format	**Setting and Appearance**
Wide screen format DVD The Letter box presentation places black bars at the top and bottom portions of the screen to provide the full wide screen presentation of a movie on a standard TV (4:3 aspect ratio).	 **"Letter Box" setting**
Wide screen format DVD The Pan & Scan presentation crops both sides of the wide screen presentation to use the full standard TV screen.	 **"Pan & Scan" setting**
Standard screen format DVD If you have a standard TV, the standard screen format will be presented regardless of the setting.	 **Any setting**
Wide screen format DVD (unnatural squeezed effect) If you are viewing a wide screen format DVD on a standard TV and the [TV Screen] setting is set to [16:9 (Wide)], the picture may appear 'squeezed' on the screen. To remedy this condition, select either [4:3 (Letter Box)] or [4:3 (Pan & Scan)].	 **"Wide" setting**
Wide screen format DVD If your TV does not have settings for how 4:3 sources look, choose the [16:9 (Compressed)] setting.	 **"Compressed" setting**

Setting the Video 1 Options

■ Component Video

Compared to a standard interlaced TV picture, a progressive scan TV is capable of stable, flicker-free images.
Set only if you connected the COMPONENT VIDEO OUT to a progressive-scan compatible TV or monitor.
Make changes to the [Component Video] settings in the setup screen [Video 1] menu.



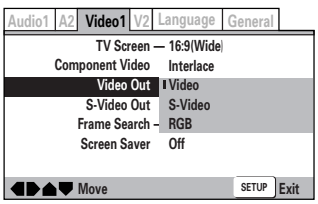
- **Progressive** – Use this setting with TVs and monitors that have progressive scan component video inputs. Check the TV's instruction manual if you are not sure about this.
- **Interlace** – (factory setting) use this setting with regular TVs that are not compatible with progressive scan. Check the TV's instruction manual if you are not sure about this.

Notes

- This function only works when the color system recorded on the disc is NTSC.
- If this player is set to output progressive-scan video, it's possible that the picture will appear stretched when playing discs recorded in 4:3 format. This happens when the TV's aspect ratio is set [Full]. To see the picture in its correct aspect ratio, change the TV setting to [Normal].
- If your TV doesn't have settings to change the aspect ratio of the picture, set this player to [16:9 (Compressed)].
- If you connect a TV that is not compatible with a progressive scan signal and choose one of the progressive scan settings, you will not be able to see any picture at all. With your TV connected using either the composite or S-Video terminals, choose the [Interlace] settings in the [Component Video] menu.

■ Setting the Video Output Format for the AV CONNECTOR (European models only)

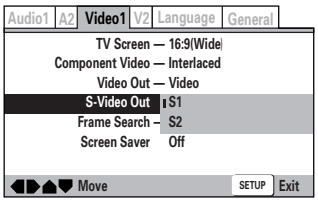
When connections are made to the AV CONNECTOR jack on the player via a SCART cable, it is possible to select the video format that is compatible with your TV or monitor. Select [Video] to have a composite video signal output, [S-Video] to have an S-video signal output, and [RGB] to have an RGB signal output. For more information on which format is most appropriate, refer to the instructions supplied with your TV or monitor. Make changes to the [Video Out] setting in the Setup screen [Video 1] menu.



Settings: **Video** (Factory setting)
S-Video
RGB

■ Switching the S-Video Output Expert

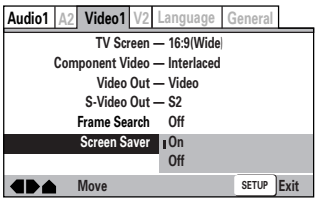
You can switch the kind of S-Video signal output from the S-Video outputs. If you connected your TV with an S-Video cord, in rare cases the TV picture may appear stretched. In this case switch the output from [S2] to [S1].
Make changes in the [S-Video Out] in the Setup screen [Video 1] menu in the [Expert] menu mode (page 47).



Settings: **S1**
S2 (Factory Setting)

■ Turning the Screen Saver On and Off Expert

As a protective function against residual images on the TV screen or monitor, a phenomenon referred to as "screen burn", the screen saver appears when the same screen has been displayed for a length of time. By default, the screen saver is turned on. However, the screen saver function can be turned on and off at your discretion.
Make changes to the [Screen Saver] setting in the Setup screen [Video 1] menu in the [Expert] menu mode (page 47).



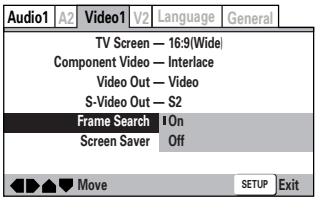
Settings: **On**
Off (Factory setting)

Note

Pressing ❚❚ (or ►) displays a playback screen, and pressing ❚❚ (or ►) again resumes playback.

■ Frame Search Expert

Set this to [On] if you want to be able to do frame-accurate searching of DVD discs. On the default setting, the time & frame search is not available.

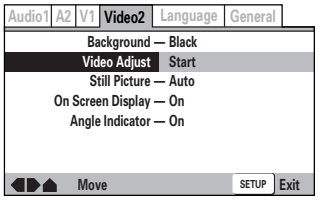


Settings: **On**
Off (Factory setting)

Adjusting Audio and Video Settings

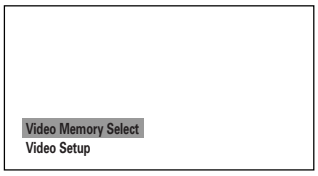
Adjusting the Video Quality

You can either select a preprogrammed setting designed to match certain program types or make adjustments to match your own preferences and save them in the player's memory. Make changes to the [Video Adjust] setting in the Setup screen Video 2 menu.

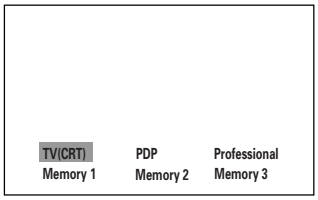


■ Selecting a preprogrammed setting

1 Use the cursor button (►) to select [Start] then press ENTER.



2 Press ENTER.



TV (CRT) (Factory Setting)
Optimized setting for a standard television set.
PDP
Optimized for a plasma display.
Professional
Optimized for a professional monitor.
Memory 1, Memory 2, and Memory 3
These are user programmable settings. See "Adjusting the picture quality settings" on pages 54 and 55 for more information.

3 Use the cursor buttons (◄/►/▲/▼) to select one of the preprogrammed picture quality settings.
If there is a DVD or Video CD playing, the effects of each setting can be viewed while it is highlighted on the screen. This may be useful in selecting an appropriate setting.

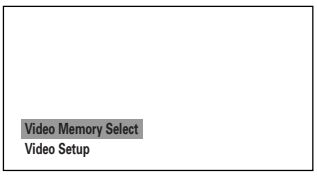
4 Press ENTER.
The new selection is set.

Notes

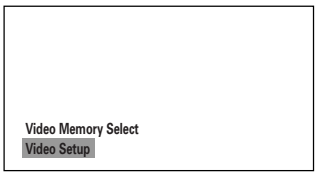
- You may also press the PICTURE button on the remote control to display the preprogrammed settings menu.
- Each picture quality setting is defined by a number of individual settings, described in "Adjusting the picture quality settings" on this page and page 55.
- Depending on the disc and the TV/monitor, you may not see the effect clearly.
- If [Letter Box (4:3)] or [Pan & Scan] is selected, there may be cases when the screen automatically changes to wide (16:9) after entering the [TV Screen] setting. This is not a malfunction. Close the [TV Screen] setting and the screen returns to its set size.

■ Adjusting the picture quality settings – To create your own setting (1)

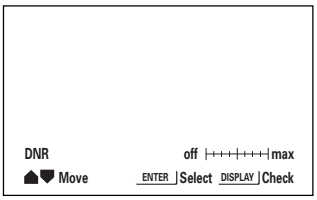
1 Use the cursor button (►) to select [Start] then press ENTER.



2 Use the cursor button (▼) to select [Video Setup] then press ENTER.



3 Use the cursor buttons (◄/►) to select the setting to [On] or [Off].



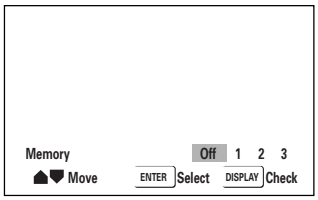
4 Use the cursor buttons (▲/▼) to select the setting to adjust. You can adjust any or all of the following picture quality factors:

- **Prog. Motion** – When using progressive scan, this adjusts the motion and still picture quality.
- **PureCinema** – When watching DVD movies, PureCinema optimizes the picture quality. The default setting is [Auto1], but if the picture appears unnatural, then set to [Auto2], [On] or [Off] as desired and adjust the Prog. Motion setting.
- **YNR** – Adjusts the amount of noise reduction (NR) applied to the Y (brightness) component.
- **CNR** – Adjusts the amount of noise reduction (NR) applied to the C (color) component.
- **MNR** (Mosquito Noise Reduction) – Adjusts the amount of noise reduction applied to the mosquito noise (video artifacts on the edge of the image resulting from MPEG compression).
- **BNR** (Block Noise Reduction) – Adjusts the amount of noise reduction applied to the block noise.
- **Sharpness High** – Adjusts the sharpness of the high-frequency (finely detailed) elements in the picture.
- **Sharpness Mid** – Adjusts the sharpness of the mid-frequency (less detailed) elements in the picture.
- **Detail** – Adjusts how sharp edges appear in the picture.
- **White Level** – Adjusts the intensity of white in the picture.
- **Black Level** – Adjusts the intensity of black in the picture.
- **Black Setup** – For correction of floating black color.
- **Gamma** – Adjusts the brightness of the darker images in the picture.
- **Hue** – Adjusts the overall color balance between red and green.

- **Chroma Level** – Adjusts how saturated colors appear.
- **Chroma Delay** – Compensates for misalignment of the Y (brightness) and the C (color) components.
  Adjusts the brightness of the darker images in the picture. Only effective with progress scan signals.

5 Use the cursor buttons (◄/►) to adjust the settings.
  Adjust these while a disc is playing to see the effect of changes immediately.

6 Repeat steps 4 and 5 to make adjustments to other settings.
  If you would like to save the settings in the player's memory, be sure to select either [1], [2], or [3] in the [Memory] setting to establish which memory location to save the new settings in. Please note that if you select a location where settings have already been saved, the old settings will be replaced by the new ones.



7 When you are finished making adjustments, press ENTER to establish the new settings.

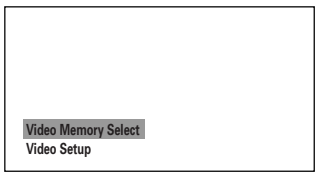
Note
Depending on the disc and your TV/monitor, the effect of these settings may not be clear.

■ PureCinema (DVD-Video only)

Video on a DVD discs may be either video material (originally shot on video) or film material (originally shot on film). Video material has a frame rate of 30 frames/sec. (NTSC), compared with 24 frames/sec. for film. This player converts film material to 60 frames/sec. (in progressive scan mode). PureCinema adjusts the picture so that it matches more closely the picture quality of a cinema screen.
You can see whether video on a DVD disc is film or video material by displaying the video transmission rate (see page 44). If a hash mark (#) appears above the transmission rate display, it is film material.

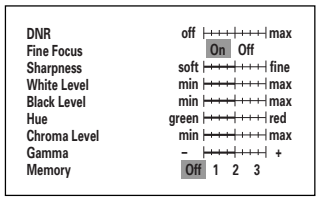
■ Adjusting the picture quality settings – To create your own setting (2)

1 Use the cursor button (►) to select [Start] then press ENTER.



2 Use the cursor button (▼) to select [Video Setup] and press ENTER.

3 Press DISPLAY.



4 Use the cursor buttons (▲/▼) to select the setting and use the cursor buttons (◄/►) to adjust the settings.
  Adjust these while a disc is playing to see the effect of changes immediately.

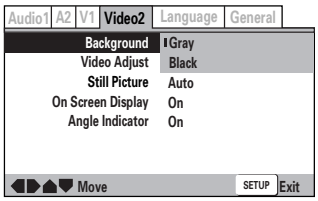
5 To memorize the setting, select [Memory 1, 2, or 3], then press ENTER.
  The previous setting will be erased.

Adjusting Audio and Video Settings

Setting the Video 2 Options

■ Changing the Background of the Screen

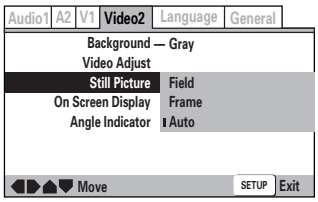
You can select a background to appear when the player is in the stop mode.
Make changes to the [Background] setting in the Setup screen Video 2 menu.



Settings: **Gray** (Factory setting)
Black

■ Selecting the Type of Paused Image to Display Expert

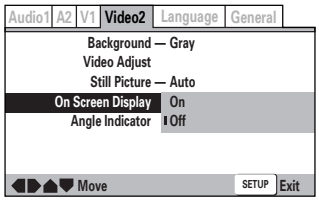
This function lets you view a clear still-image when DVD playback is paused.
Make changes in the [Still Picture] setting in the Setup screen Video 2 menu in the [Expert] menu mode (page 47).



Settings: **Field** (Picture shake will be eliminated during a paused picture.)
Frame (Select to obtain higher picture quality.)
Auto (Selects [Field] or [Frame] automatically according to the disc.) (Factory setting)

■ Setting the Position of the On-screen Display Expert

You can select to turn on the on screen display, or alternatively, choose to turn them off completely with the [Off] setting.
Make changes in the [On Screen Display] in the Setup screen Video 2 menu in the [Expert] menu mode (page 47).

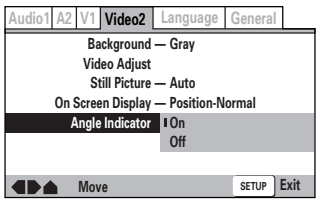


Settings: **On** (Factory setting)
Off

Note
This setting is only effective with DVDs that contain a 4:3 aspect ratio video presentation.

■ Turning the angle indicator on and off Expert

When a picture recorded in different angles is played back is displayed on the screen. This setting lets you see clearly whether the playback picture is recorded in multiple angles or not.
Turn the angle indicator on or off in the [Angle Indicator] setting in the Setup screen Video 2 menu in the [Expert] menu mode (page 47).



Settings: **On** (is displayed) (Factory setting)
Off (Not Displayed)

Note
Even when the [Angle Indicator] setting is set to [Off], the indicator in the display panel of the player lights during multi-angle playback. Therefore, it is possible to know when the multi-angle function can be used without having to display the icon on the screen.

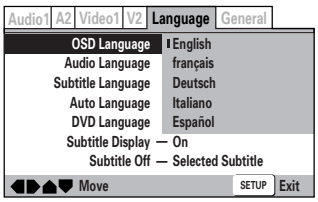
Setting the Language Options

DVDs have the capacity to contain a great deal of audio information, which includes the ability to hold up to 8 different language tracks and subtitle information in as many as 32 different languages. This section outlines the variety of audio language and subtitle options available with this player.
Please note that if you have completed the Setup Navigator, the audio and subtitle language options have automatically been set in accordance with the [OSD Language] (the language that appears on the screen).

Note
DVDs differ in content and do not all contain multiple language or subtitle information. Therefore making settings in this section may have no effect on some DVDs.

■ Setting the On-screen Display (OSD) Language

This setting is used to establish the language that operation indicators and on-screen messages and operations display. Change this setting in the Setup screen Language menu [OSD Language] setting.



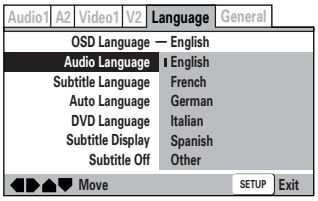
Settings: **English** (Factory setting)
français
Deutsch
Italiano
Español

Asian models: **English** (Factory setting)
Chinese

Notes
- The menu settings may be different from those shown above.
- The [OSD Language] setting is factory set to [English]. If you want English to be displayed, it is not necessary to adjust this setting.

■ Selecting an audio language preference

The audio language that you normally listen to can be selected from the various audio languages on a DVD. Even when the audio language is changed during playback by pressing AUDIO, the language selected at this setting will be selected as the default when the DVD is changed.
Make changes to the [Audio Language] setting in the Setup screen Language menu.
You cannot make this setting with a disc playing.



Settings: **English** (Factory setting)
French
German
Italian
Spanish
Other (For details on how to select other languages, see “When [Other] is selected” on page 59).

Asian models: **English**
Chinese (Factory setting)
Other (For details on how to select other languages, see “When [Other] is selected” on page 59).

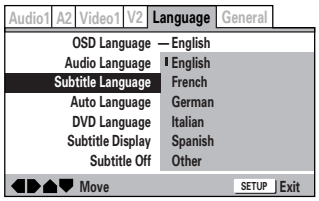
Note
The menu settings may be different from those shown above.

Adjusting Audio and Video Settings

Setting the Language Options

■ Selecting a subtitle language preference

The subtitle language that you will normally display can be selected from the subtitles programmed on a disc. Even when the subtitle language is changed during playback by pressing SUBTTL, the language selected at this setting will be selected when the disc is changed.
Make changes to the [Subtitle Language] setting in the Setup screen Language menu.
You cannot make this setting with a disc playing.



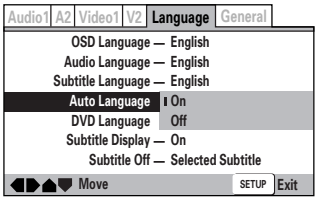
Settings: **English** (Factory setting)
French
German
Italian
Spanish
Other (For details on how to select other languages, see “When [Other] is selected” on page 59).

Asian models: **English**
Chinese (Factory setting)
Other (For details on how to select other languages, see “When [Other] is selected” on page 59).

Note
The menu settings may be different from those shown above.

■ Setting Auto Language to control subtitle and audio language based on program content

When the Auto Language function is used, foreign movies are shown with the original audio soundtrack and subtitles in the language selected in the [Subtitle Language] menu option. Domestic films are shown with the original audio soundtrack and no subtitles. (This setting may not be effective with all DVD discs.)
Make changes to the [Auto Language] setting in the Setup screen Language menu.
You cannot make this setting with a disc playing.



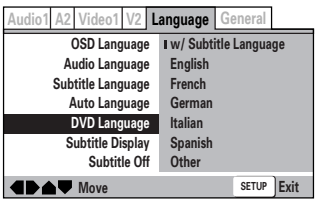
Settings: **On** (Factory setting)
Off

Note
The Auto Language function operates only when this function is set to [On], and the language set for the [Audio Language] and [Subtitle Language] settings is the same.

■ Selecting a DVD menu language preference

Expert

In addition to containing different audio languages, DVD may also contain menu screens in different languages as well. Setting a DVD language preference, sets the selected language as a default when DVDs with menu information in that language are encountered.
Selecting [w/ Subtitle Language] automatically assigns the language selected in the [Subtitle Language] setting.
Make changes to the [DVD Language] setting in the Setup screen Language menu in the [Expert] menu mode (page 47).
You cannot make this setting with a disc playing.



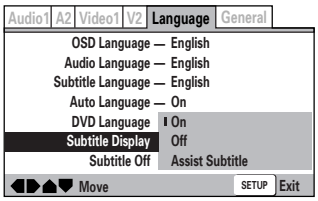
Settings: **w/ Subtitle Language** (Factory setting)
English
French
German
Italian
Spanish
Other (For details on how to select other languages, see “When [Other] is selected” on page 59).

Asian models: **w/ Subtitle Language** (Factory setting)
English
Chinese
Other (For details on how to select other languages, see “When [Other] is selected” on page 59).

Notes
- The menu settings may look different from the one shown above.
- If this function is not effective, the languages that can be selected may also be selected in the DVD menu. Press MENU to open the DVD menu and make your selection accordingly.

■ Selecting subtitles, assist subtitles or no subtitles Expert

Use this function to turn the subtitles on or off. Additionally, some DVDs provide assist subtitles that provide additional explanations of scenes in addition to the standard subtitles for viewers who are hard of hearing. Select [Assist Subtitle] to display these subtitles on DVDs where this function is offered. Make changes to the [Subtitle Display] setting in the Setup screen Language menu in the [Expert] menu mode (page 47). You cannot make this setting with a disc playing.



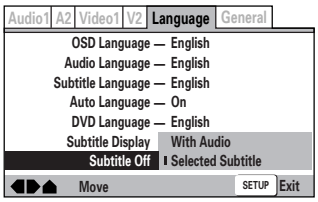
Settings: **On** (Factory setting)
Off
Assist Subtitle

Notes

- If there is no subtitle information recorded on the DVD, no subtitles are displayed even if this function is set to [On].
- This setting serves as a default as whether or not to display subtitles. Even if this option is set to [Off], subtitles can be displayed by pressing SUBTTL. Similarly, if this option is set to [On], the subtitles can be turned off by pressing SUBTTL and then CLEAR.

■ Forcing subtitles to be displayed Expert

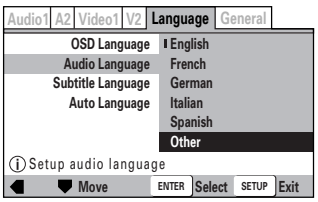
Even when the subtitles are turned off, some DVDs will nevertheless display them on the screen. This setting allows you to select the language of the subtitles to be displayed with this type of DVD.
Select [With Audio] to display the subtitles in the same language as the currently selected [Audio Language]. Select [Selected Subtitle] to display the subtitles in the language set in the [Subtitle Language] setting.
Make changes to the [Subtitle Off] setting in the Setup screen Language menu in the [Expert] menu mode (page 47).
You cannot make this setting with a disc playing.


Audio1 A2 Video1 V2 Language General
OSD Language — English
Audio Language — English
Subtitle Language — English
Auto Language — On
DVD Language — English
Subtitle Display With Audio
Subtitle Off Selected Subtitle
Move SETUP Exit

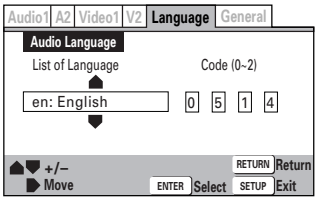
Settings: **With Audio**
Selected Subtitle (Factory setting)

■ When [Other] is selected

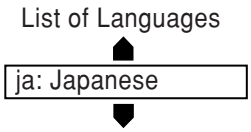
When you want to select one of the 136 languages as the main audio language, follow the steps below when the following screen appears.
The language code list can be found on page 60.



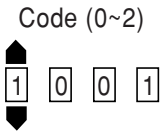
1 Use the cursor buttons to select [Other] and press ENTER.
The language selection screen appears.



2 Use the cursor buttons (◄/►) to select either [List of Languages] or [Code].
3 If you select [List of Languages], use the cursor buttons (▲/▼) to select the language.
For languages which are only shown as a code, please refer to "Language Code List" on page 60.



If you select [Code], use the cursor buttons (▲/▼) to input the numbers of the input code.
Use the cursor buttons (◄/►) to change the position of the cursor. You can also use the number buttons to enter the code.



4 Press ENTER to set the new language.
To exit the screen without making any changes, press RETURN.

Language Code List

Language codes are used when setting the audio and subtitle language preferences (page 57– 59).

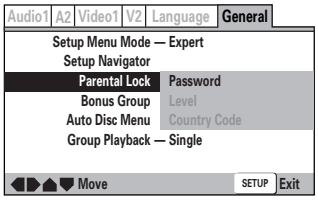
Language	Input-code
Japanese (ja)	1001
English (en)	0514
French (fr)	0618
German (de)	0405
Italian (it)	0920
Spanish (es)	0519
Chinese (zh)	2608
Dutch (nl)	1412
Portuguese (pt)	1620
Swedish (sv)	1922
Russian (ru)	1821
Korean (ko)	1115
Greek (el)	0512
Afar (aa)	0101
Abkhazian (ab)	0102
Afrikaans (af)	0106
Amharic (am)	0113
Arabic (ar)	0118
Assamese (as)	0119
Aymara (ay)	0125
Azerbaijani (az)	0126
Bashkir (ba)	0201
Byelorussian (be)	0205
Bulgarian (bg)	0207
Bihari (bh)	0208
Bislama (bi)	0209
Bengali (bn)	0214
Tibetan (bo)	0215
Breton (br)	0218
Catalan (ca)	0301
Corsican (co)	0315
Czech (cs)	0319
Welsh (cy)	0325
Danish (da)	0401
Bhutani (dz)	0426
Esperanto (eo)	0515
Estonian (et)	0520
Basque (eu)	0521
Persian (fa)	0601
Finnish (fi)	0609
Fiji (fj)	0610
Faroese (fo)	0615
Frisian (fy)	0625
Irish (ga)	0701
Scots-Gaelic (gd)	0704
Galician (gl)	0712
Guarani (gn)	0714

Language	Input-code
Gujarati (gu)	0721
Hausa (ha)	0801
Hindi (hi)	0809
Croatian (hr)	0818
Hungarian (hu)	0821
Armenian (hy)	0825
Interlingua (ia)	0901
Interlingue (ie)	0905
Inupiak (ik)	0911
Indonesian (in)	0914
Icelandic (is)	0919
Hebrew (iw)	0923
Yiddish (ji)	1009
Javanese (jw)	1023
Georgian (ka)	1101
Kazakh (kk)	1111
Greenlandic (kl)	1112
Cambodian (km)	1113
Kannada (kn)	1114
Kashmiri (ks)	1119
Kurdish (ku)	1121
Kirghiz (ky)	1125
Latin (la)	1201
Lingala (ln)	1214
Laothian (lo)	1215
Lithuanian (lt)	1220
Latvian (lv)	1222
Malagasy (mg)	1307
Maori (mi)	1309
Macedonian (mk)	1311
Malayalam (ml)	1312
Mongolian (mn)	1314
Moldavian (mo)	1315
Marathi (mr)	1318
Malay (ms)	1319
Maltese (mt)	1320
Burmese (my)	1325
Nauru (na)	1401
Nepali (ne)	1405
Norwegian (no)	1415
Occitan (oc)	1503
Oromo (om)	1513
Oriya (or)	1518
Panjabi (pa)	1601
Polish (pl)	1612
Pashto, Pushto (ps)	1619
Quechua (qu)	1721

Language	Input-code
Rhaeto-Romance (rm)	1813
Kirundi (rn)	1814
Romanian (ro)	1815
Kinyarwanda (rw)	1823
Sanskrit (sa)	1901
Sindhi (sd)	1904
Sangho (sg)	1907
Serbo-Croatian (sh)	1908
Sinhalese (si)	1909
Slovak (sk)	1911
Slovenian (sl)	1912
Samoan (sm)	1913
Shona (sn)	1914
Somali (so)	1915
Albanian (sq)	1917
Serbian (sr)	1918
Siswati (ss)	1919
Sesotho (st)	1920
Sundanese (su)	1921
Swahili (sw)	1923
Tamil (ta)	2001
Telugu (te)	2005
Tajik (tg)	2007
Thai (th)	2008
Tigrinya (ti)	2009
Turkmen (tk)	2011
Tagalog (tl)	2012
Setswana (tn)	2014
Tonga (to)	2015
Turkish (tr)	2018
Tsonga (ts)	2019
Tatar (tt)	2020
Twi (tw)	2023
Ukrainian (uk)	2111
Urdu (ur)	2118
Uzbek (uz)	2126
Vietnamese (vi)	2209
Volapük (vo)	2215
Wolof (wo)	2315
Xhosa (xh)	2408
Yoruba (yo)	2515
Zulu (zu)	2621

Setting the Parental Lock Level

This player lets you set the Parental Lock if the DVD has a parental lock level recorded on it. With Parental Lock capable discs, you can block access to material you feel is inappropriate for your children. Refer to the DVD disc jacket and the accompanying documentation to see if a particular disc contains a parental lock level.
Make changes to the [Parental Lock] setting in the Setup screen General menu. Please note that changes to the Parental Lock level cannot be made when a disc is playing. Stop playback of the disc before attempting to make any changes.
You cannot select [Level] or [Country Code] until you have registered a password. Select [Password] to register a new password. See “Entering the Password” on the this page for how to register a new password.



Settings: **Password**
(For information, refer to “Entering the Password” on the this page.)

Level
(For information, refer to “Setting the Parental Lock Level” on the following page.)

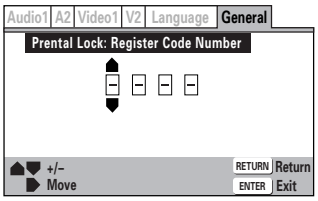
Country Code
(For information, refer to “Setting the Country Code” on the following page.)

When a DVD with a set Parental Lock level is loaded
Playback cannot be started until the code number has been correctly input by using the cursor buttons (◄/►/▲/▼) or the number buttons, and ENTER has been pressed.

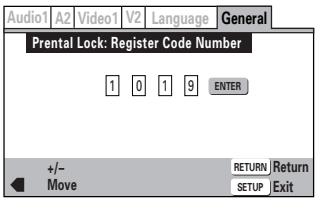
■ Entering the Password

When you select either [Level] or [Country Code], it is necessary to register the password (4-digit code number). You’ll be asked to confirm your existing password before registering a new one. Use the following steps at any time you are asked to enter or confirm your password.

1 Use the cursor buttons (▲/▼) or the number buttons to select a number between 0 and 9.
You can also use the number buttons to enter the numbers directly. When entering your password for the first time, or changing it, you will be asked to reenter your password. When using the number buttons to confirm the password, the numbers appear as asterisks, and the cursor advances automatically to the next position.



2 Use the cursor buttons (◄/►) to move the cursor to a different position in the password.
When all four numbers of the password have been entered, “ENTER” appears on the screen.



3 Press ENTER to set the password.
The password is entered.

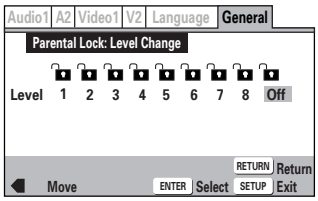
Notes
- Be sure not to forget your password. If you should forget it, reset the system, and enter a new password. To reset the system, see “Resetting the Player to System Settings” (page 64). Please note that this procedure resets the system, and clears all saved settings, not just the password.
- Some discs lock out violent scenes. Refer to instruction notes on discs.

Setting the Parental Lock Level

■ Setting the Parental Lock Level

Change the Parental Lock level to a higher or lower level according to the settings printed on the DVD disc jacket or accompanying documentation. If you use the Condition Memory function to save the settings for a particular disc, the Parental Lock level is saved as well. Because it is saved in memory, Parental Lock levels can be set for individual discs according to their content rather than a set level for all DVDs.

1 Select [Level] in the [Parental Lock] setting and press ENTER.
The screen changes to the password input screen. You cannot select [Level] until you have registered a password. To enter the password, refer to “Entering the Password” on the previous page.


Audio1 A2 Video1 V2 Language General
Parental Lock: Level Change
Level 1 2 3 4 5 6 7 8 Off
RETURN Return
Move
ENTER Select SETUP Exit

2 Use the cursor buttons (◄/►) to adjust the Parental Lock Level.
The lock icons appear “unlocked” up to the selected level to indicate that access is available.

3 Press ENTER to set the new level.
The new Parental Lock level is set and the screen returns to the General menu screen. To go back to the General menu screen without making any changes, press RETURN.

■ Changing the Password

Change your password whenever you feel it is necessary. However, if you forget your existing password, you cannot enter this screen to change it.

1 Select [Password Change] in the [Parental Lock] setting and press ENTER.
The screen changes to the password input screen. To enter the password, refer to “Entering the Password” on the previous page.

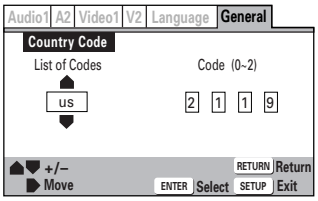
2 Use the cursor buttons (◄/►/▲/▼) or the number buttons to enter the new password.

3 When the new password has been entered, press ENTER.
The new password is set and the screen returns to the General menu screen. To go back to the General menu screen without making any changes, press RETURN.

■ Setting the Country Code

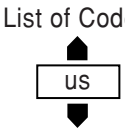
Change your Country Code whenever you feel it is necessary. However, if you forget your existing password, you cannot enter this screen to change it.

1 Select [Country Code] in the [Parental Lock] setting and press ENTER.
The screen changes to the password input screen. To enter the password, refer to “Entering the Password” on the previous page.
The Country Code selection screen appear.

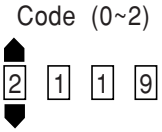


2 Use the cursor buttons (◄/►) to select either [List of Codes] or [Code].

3 If you select [List of Codes], use the cursor buttons (▲/▼) to select the country.
For country codes which are only shown as a code, please refer to “Country Code List” on page 63.



If you select [Code], use the cursor buttons (▲/▼) to input the numbers of the input code.
Use the cursor buttons (◄/►) to change the position of the cursor. You can also use the number buttons to enter the code.



4 Press ENTER to set the new Country Code.
To exit the screen without making any changes, press RETURN.

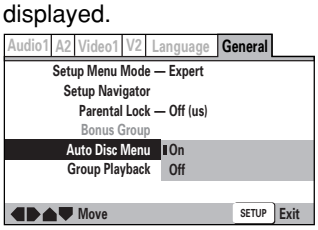
Country Code List

Country	Input-code	Country-code
ARGENTINA	0118	ar
AUSTRALIA	0121	au
AUSTRIA	0120	at
BELGIUM	0205	be
BRAZIL	0218	br
CANADA	0301	ca
CHILE	0312	cl
CHINA	0314	cn
DENMARK	0411	dk
FINLAND	0609	fi
FRANCE	0618	fr
GERMANY	0405	de
HONG KONG	0811	hk
INDIA	0914	in
INDONESIA	0904	id
ITALY	0920	it
JAPAN	1016	jp
KOREA, REPUBLIC OF	1118	kr
MALAYSIA	1325	my
MEXICO	1324	mx
NETHERLANDS	1412	nl
NEW ZEALAND	1426	nz
NORWAY	1415	no
PAKISTAN	1611	pk
PHILIPPINES	1608	ph
PORTUGAL	1620	pt
RUSSIAN FEDERATION	1821	ru
SINGAPORE	1907	sg
SPAIN	0519	es
SWEDEN	1905	se
SWITZERLAND	0308	ch
TAIWAN, PROVINCE OF CHINA	2023	tw
THAILAND	2008	th
UNITED KINGDOM	0702	gb
UNITED STATES OF AMERICA	2119	us

Other Settings

■ Auto Disc Menu Expert

This specifies whether the menu (Top menu) is automatically displayed after loading a disc. Set to [On] if you want the menu displayed automatically, or [Off] if you don't want it displayed.

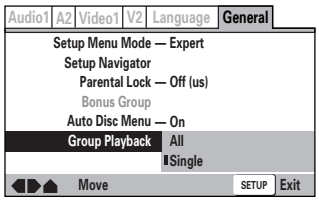


Settings: **On** (Default setting)
Off

Note
Some DVD discs display a menu automatically regardless of this setting. If you press ► while a disc is loading, this setting is ignored.

■ Group Playback Expert

DVD-Audio discs can have up to 9 groups of tracks. When set to [Single], the selected group plays and then the disc stops, or returns to the menu screen. Use Group Search (page 30) to select the group to play. (You cannot use the track skip I◄◄/►►I or scan buttons ◄◄/►► in this mode.)
Set to [All] if you want to play all the groups on a disc consecutively.

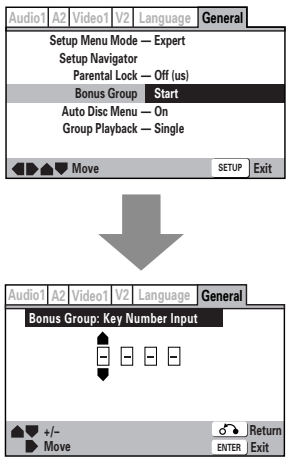


Settings: **All**
Single (Default setting)

Notes
- You can also select groups to play from the disc main menu.
- Even if the player is set to [All] but you select a group to play from the disc menu, only that group will play. If you stop playback, all groups will play again when you restart playback.
- Even if the player is set to [Single] and all groups are selected, only one group will playback.

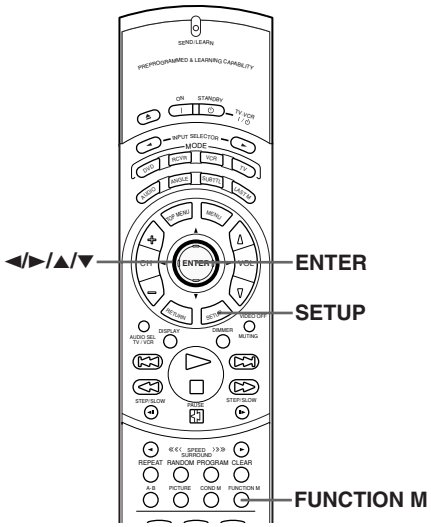
■ Bonus Group Expert

Some DVD-Audio discs have an extra 'bonus' group that requires a 4-digit key number to access. See the disc packaging for details and the key number. When you try and play the bonus group, the key number input screen will automatically appear, although it is also available from the General menu. Input the number and press ENTER.



Note
If you eject the disc, switch the power off, or unplug the power, you will need to re-enter the key number.

Adjusting Audio and Video Settings

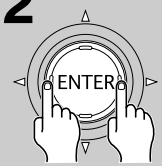


Memorizing Settings (Function Memory)

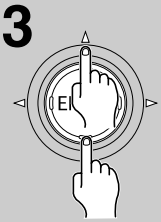
Up to 5 settings can be memorized.

1

Press SETUP.
The Setup screen appears.

2 

Use the cursor buttons (◄/►) to select the menu you want.

3 

Use the cursor buttons (▲/▼) to select the setting to be memorized.
As each menu is selected with the cursor, the settings appear below the menu heading.

4

Press ENTER.

5

Press FUNCTION M.
“FM” will appear on the screen, and the setting will be memorized.

■ To clear the Function Memory

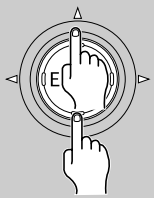
Press FUNCTION M again.

Note
Some settings cannot be memorized.

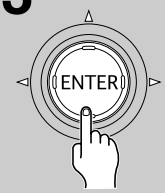
Recalling Memorized Settings

1

Press FUNCTION M.
Only memorized settings are displayed.

2 

Use the cursor buttons (▲/▼) to select the menu to be recalled.

3 

Press ENTER.

Resetting the Player to System Settings

To reset the player, press and hold ■ on the front panel. Then press STANDBY/ON to turn the unit from standby to on.
All program memory, saved settings from functions such as “Video Memory”, “Last Memory” and “Condition Memory” are cleared, TV System is reset to AUTO and all Setup screen menus are returned to factory settings.

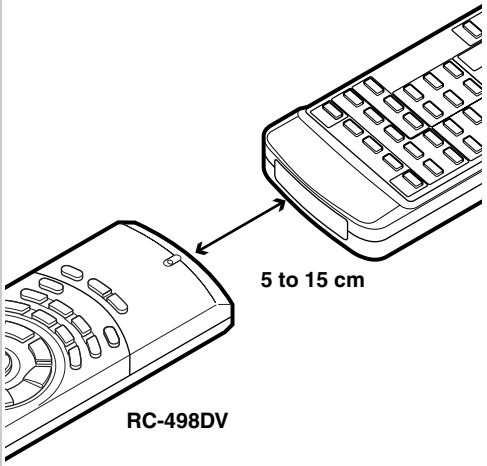
Programming the Commands of Other Remote Control Units into the Remote Controller

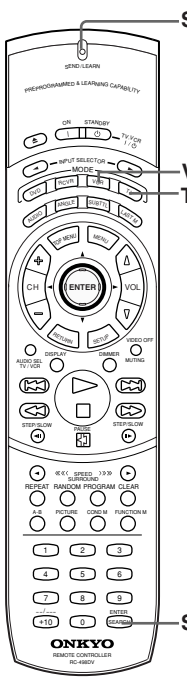
This remote controller features a learning function that allows you to program the remote codes of other remote control units for more singular control of your home entertainment system. A number of commands can be programmed for operation for when the remote controller is in DVD mode and when it is in Receiver mode. Please follow the procedure in this section to program your remote controller to your preferences.

Programming procedure

The first step in the procedure is to determine whether the new command is to be learned in the DVD mode or in the Receiver mode. Generally speaking, this should be decided by the command being learned. After deciding which mode is to be used, you will then transfer the individual commands from the other remote control unit to the RC-498DV remote controller one at a time. Each command is then programmed to one of the available buttons on the RC-498DV remote controller.
Even after the commands have been programmed, keep the other remote control unit in a safe place in the case that the programmed commands should be lost (e.g., when the batteries run down). If the commands are lost, it will then be necessary to program them again.

1 **Place the remote controller and the other remote control unit of the other component facing each other at a distance of 5 to 15 cm apart.**





2 **While pressing and holding down the desired MODE button (VCR or TV) on the remote controller, press SEARCH and then release both buttons.**

When you press and hold down the desired MODE button, the SEND/LEARN indicator lights up. When you press SEARCH, the indicator turns off. When you release both buttons, the indicator lights up again.

3 **Press and release the button on the remote controller to which you want to transfer the new command.**

The buttons that can be selected in this step depend on the mode (other than MODE (DVD, RCVR, TV, VCR)).

If you press the wrong button by mistake, press the same button again. The SEND/LEARN indicator flashes three times and the remote controller exits the programming mode. When this is the case, start again at step 1.

Programming the Commands of Other Remote Control Units into the Remote Controller

Programming procedure

4	**Press and hold down the button on the other remote control unit that corresponds to the command you want to program until the SEND/ LEARN indicator flashes twice to indicate that the command has been successfully programmed.** After flashing twice, the SEND/LEARN indicator lights up again.
5	**Repeat steps 3 and 4 to program other commands within the same mode. Repeat step 2 to 4 to program commands to the other mode.**
6	**Press the MODE button (VCR or TV) that you pressed in step 2 to complete the programming.**
7	**Use the remote controller to perform the newly learned command to confirm that it was learned correctly.**

Notes

- Some buttons have already been programmed to control functions of an Onkyo receiver. Therefore, it is recommended to program additional functions of the receiver that are not already programmed in the remote controller.
- If no buttons are pressed for more than 30 seconds during the programming, or if you perform an invalid operation, the SEND/ LEARN indicator flashes three times quickly and the remote controller exits the programming mode. Resume programming from step 2.
- If you perform an invalid operation during programming, the SEND/LEARN indicator flashes three times quickly and the remote controller exits the programming mode. Resume from Step 2.
- When you want to program a command to a button to which you have already programmed a command, simply follow the same procedure and programming for that button will be overwritten.
- The remote controller uses infrared rays to send its commands, as do most other remote control units. Though most remote control units can be memorized by the remote controller, be aware that some remote control units use a system that is quite different from the remote controller and therefore may not be able to be programmed.
- Some remote control units have a single button that performs multiple functions (for example, the function may change each time the button is pressed). If this is the case, each function must be programmed to a separate button on the remote controller.
- Once you have programmed the commands from the other remote control unit, refer to the instructions supplied with the other component to operate.
- Make sure that both the remote controller and the other remote control unit have new batteries. If either of them has batteries that are low, you may not be able to program the commands of the other remote control unit properly into the remote controller.
- Removing the batteries from the remote controller for at least 10 minutes erases all of the commands that have been programmed in the remote controller.

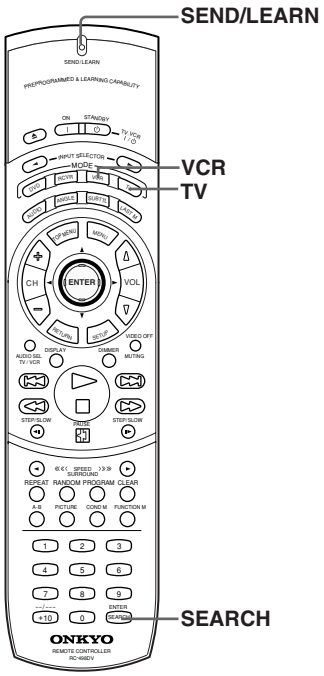
Erasing the programmed command from one button

You can only erase memorized commands and not preset ones.

1	**Press and hold down the desired MODE button for the command, press the SEARCH button, and then release both buttons.** When you release the buttons, the SEND/LEARN indicator lights.
2	**Press and release the button for the command you wish to erase.** When you press the button, the SEND/LEARN indicator turns off. When you release the button, the indicator lights again.
3	**Press and release the same button again.** The SEND/LEARN indicator flashes twice. The memorized command is erased.

Note

If no button is pressed for more than 30 seconds during the programming, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the programming mode. Resume from Step 1.



Erasing all the commands programmed under a MODE button

1	**Press and hold down the desired MODE button, press the SEARCH button twice, and then release both buttons.** When you release the buttons, the SEND/LEARN indicator flashes twice slowly and then lights again.
2	**Press and release the same MODE button again.** When you release the button, the SEND/LEARN indicator flashes twice slowly. This erases all the commands memorized to the MODE button.

Notes

- If no button is pressed for more than 30 seconds, the SEND/LEARN indicator flashes three times quickly and the remote controller exits the programming mode. Resume Step 1.
- If you perform an invalid operation during programming, the SEND/LEARN indicator flashes three times quickly and the remote controller exits the programming mode. Resume from Step 1.
- If many commands have been programmed to the MODE button, then the SEND/LEARN indicator may remain lit for some time during Step 2. This is not a malfunction.

Register the Codes of Other Unit's Remote Controllers

Register the codes of other unit's (TV or VCR) remote controllers

Use this feature to register the remote codes of other remote control units. Please look up your TV/VCR from list of remote control codes starting on page 69.

1 **While pressing and holding down the desired MODE button (VCR or TV) on the remote controller press +10 and then release both buttons.**

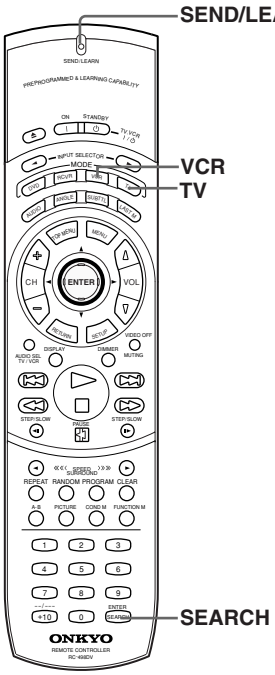
When you press and hold down the desired MODE button, the SEND/LEARN indicator lights up. When you press the DISPLAY button, the indicator turns off.

When the SEND/LEARN indicator turns off, release the buttons and the indicator lights up again.

2 **Use the number buttons on the remote controller to input the TV/VCR three digit remote control code.**

The SEND/LEARN indicator flashes twice slowly to indicate that the command has been successfully programmed.

If you perform an invalid operation, the SEND/LEARN indicator flashes three times quickly. Follow the same procedure again.



Operate other units with the registered codes

If you are unable to operate other units with the RC-498DV remote, perform the registration procedures again.

RC-498DV button names	TV	VCR
I (ON)	POWER	POWER
⏻ (STANDBY)	POWER	POWER
CH +	Program Channel +	Program Channel +
CH –	Program Channel –	Program Channel –
VOL△	Volume +	
VOL▽	Volume –	
A/AUDIO SEL/TV/VCR	TV/VCR	TV/VCR
VIDEO OFF/M/MUTING	Mute	
►		Play
■		Stop
►►		FF
◄◄		FR
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
+10	+10, –/---	+10
0	0	0
ENTER/SEARCH	ENT, OK	ENT, OK
⏸ (PAUSE)		PAUSE

Erasing Registered codes

1 **Remove the batteries from the remote controller.**

2 **While pressing and holding down the ON and STANDBY buttons, reinsert the batteries.**

3 **Press the SEARCH button.**

Note

The above procedure will completely remove all registered codes from the remote controller.

Preset Settings

■ TV

Brand	Remote Code
AIWA	100, 101
AKAI	102, 103, 104
AUDIO SONIC	105
BELL&HOWELL	106
BLAUPUNKT	107
BRIONVEGA	108, 109
CENTURION	110
COLTINA	111, 112, 113
CORONAD	114
CROWN	115, 116
DAEWOO	117, 118, 119, 120, 121
DUAL	122
EMERSON	123, 124, 125, 126, 127
FENNER	128, 129
FERGUSON	130, 131
FISHER	132
FUNAI	133, 134, 135
FUJITSU GENERAL	136, 137, 138
GE•PANA	139, 140
GE•RCA	141
GOLD STAR	142, 143
GOODMANS	144
GRUNDIG	145, 146
HITACHI	147, 148, 149, 150
HYPER	151
INNO-HIT	152
IRRADIO	103
JVC	153, 154, 155, 156, 157
KENDO	158
KTV	159, 160
LUXOR	161
MAGNAVOX	162, 163
MARANTZ	164
MARK	165
MATSUI	166, 167, 168, 169
MITSUBISHI	170, 171, 172, 173
MIVAR	174, 175
NEC	176, 177
NOKIA	178, 179, 180, 181
NOKIA OCEANIC	181
NORDMENDE	182, 183
OKANO	152
ORION	184, 185, 186
PANASONIC	187, 188, 189, 190
PHILIPS	162, 191, 152
PIONEER	192, 193
PROSCAN	194
QUASAR	195
RADIOSHARK	196
RCA	141, 197, 198, 110, 199, 200
SABA	201, 182, 183
SAMSUNG	202, 203, 204, 205, 206, 207, 208
SANYO	209, 210, 211, 212
SCHNEIDER	103
SEARS	213
SELECO	214, 215
SHARP	216, 217
SONY	218, 219, 220, 221, 222, 223
SYMPHONIC	224, 225
TELEFUNKEN	201, 226, 227
THOMSON	228
TOSHIBA	213, 229
UNIVERSUM	230
ZENITH	231, 232

Note
In the case of multiple codes, register one at a time to find the proper code.

Register the Codes of Other Unit's Remote Controllers

Preset Settings

■ VCR

Brand	Remote Code
AIWA	300, 301, 302
AKAI	303, 304, 305, 306, 307
BAIRD	308
BELL&HOWELL	309
BLAUPUNKT	310
CGM	311, 312, 313
COLTINA	314
DAEWOO	315, 316
DIGTAL	317
EMERSON	318, 319, 320, 321, 322
FENER	323
FISHER	324, 325, 326, 327
FUJITSU GENERAL	328
FUNAI	329
G.E.	331, 330
GO VIDEO	332, 336, 337
GOLDSTAR	333, 334
GOODMANS	335
GRUNDIG	338
HITACHI	331, 382, 339, 340, 341
JVC	342, 343, 344, 345, 346, 347, 348, 349, 350
LOEWE	351, 352
MAGNAVOX	353, 354, 355
MITSUBISHI	356, 357, 358, 359, 360, 361, 362, 363, 364
NEC	365, 366, 367
NOKIA	313
NORDMENDE	368, 369, 370
OKANO	371, 372
ORION	319, 373
PANASONIC	374, 375, 376, 377, 378
PHILIPS	353, 379, 380
PHONOLA	311
PIONEER	381
RCA	382
SABA	383
SAMSUNG	384, 385, 386, 387, 388, 389, 390
SANYO	391, 392, 393
SCOTT	394
SELECO	395
SHARP	396, 397, 398, 399
SHINTOM	400
SIEMENS	401
SONY	402, 403, 404, 405, 406, 407, 408, 409 410, 411, 412, 413, 423
SYMPHONIC	414
TEKNICA	414, 415
TELEFUNKEN	416, 417
TOSHIBA	418, 419, 420
WHITE WESTINGHOUSE	333
WATSON	421
ZENITH	422

Troubleshooting

Check the following guide for the possible cause of a problem before contacting service. Refer also to the respective instruction manuals of the connected components and TV.

	Symptoms	Causes	Remedies	Pages
DVD Player	The DVD Player doesn't switch on.	• The mains lead is disconnected. • The main power is set to OFF. • There is external noise in the computer circuits of the DVD Player.	• Check the connection of the mains lead. • Turn on the main power. • Switch off the main power, then switch it on again. If not recovered, disconnect the mains lead, then connect it again.	20 20 –
	The disc tray comes back out automatically, shortly after the disc tray is closed.	• The disc is not placed properly on the disc tray. • The disc is dirty or warped. • Region number does not conform with this unit.	• Use the disc tray guide to align the disc. • Refer to "Notes on Discs". • If the region number on the disc does not match the number on the player, the disc cannot be used.	25 6 5
	The DVD Player does not start playback.	• No disc is inserted. • An unplayable disc is inserted. • The disc is placed upside down. • The disc is not placed within the disc tray guide. • The disc is dirty. • The parental lock function is activated.	• Insert a disc. (Check that "DVD," "VCD," or "CD" is lit in the DVD Player's display.) • Check the playable discs. • Place the disc with the playback side down. • Place the disc within the proper guide on the disc tray. • Eject the disc and clean it. • Deactivate the parental lock function or change the parental lock level.	25 6 25 25 6 61-62
	The playback picture is occasionally distorted.	• The disc is dirty. • It is in fast forward or fast reverse playback.	• Eject the disc and clean it. • Sometimes a small amount of picture distortion may appear. This is not a malfunction.	6 –
	Brightness is unstable or noise is visible on the playback picture.	• Copy protection is activated.	• Connect the DVD Player directly to the TV. Avoid connecting the DVD Player to the TV through a VCR.	15-17
	The picture from the DVD Player doesn't appear on the TV screen.	• The TV is not set to receive the output signals from the DVD Player. • The DVD Player is not properly connected.	• Set the TV to the DVD Player's input. • Check the connections to the DVD Player.	– 15-17
	Settings are canceled.	• When the power is turned off by power failure or by unplugging the power cord, settings will be canceled.	• Before unplugging the power cord, press STANDBY/ON and check that "--OFF--" disappears in the display.	–
	Playback doesn't follow the course of the disc's programs.	• The DVD Player is in repeat playback mode, memory playback mode, or random playback mode, etc.	• Resume normal playback.	32-36
	The buttons on the remote controller and DVD Player do not operate.	• Power supply fluctuations or other abnormalities such as static electricity may interrupt correct operation.	• Switch off the main power, then switch it on again. If not recovered, disconnect the mains lead, then connect it again.	20
	mark appears on screen.	• The selected function does not operate for that disc.	–	–
	mark appears on screen.	• The operation is prohibited by the player.	–	–
	When making changes in the Setup screen menus, DVD is displayed.	• There is a SACD, Video CD, CD or MP3 loaded in the player and the setting that was changed only applies to DVD performance.	• The setting will be effective the next time a DVD is loaded.	47
	Some settings in the Setup Menu do not appear.	• The [Setup Menu Mode] is set to [Basic].	• Set the [Setup Menu Mode] to [Expert].	47
	Can't perform frame search, or the frame number is not displayed.	• Check that the [Frame Search] option is set to [On]. • You can only use frame search with DVD-Video discs. • Frame numbers are only displayed with DVD-Video discs, and only when the disc is paused or during frame advance/ reverse.	• Set the [Frame Search] to [On] in the setup screen. – –	53 – –

Troubleshooting

	Symptoms	Causes	Remedies	Pages
DVD Player	Frame search doesn't find the frame number input, or some frames are skipped when using frame advance.	• You may experience this with discs recorded in 24 frames/second progressive scan format. With these discs, the player 'misses' one frame every six frames. For this reason, the frame numbers do not appear continuous when using frame advance, and it may not be possible to display the exact frame you searched for.	• The player does not actually drop any frames that are recorded on the disc during operation. This is not a malfunction.	–
	SACD audio cannot be output digitally.	–	• SACD audio cannot be output digitally. Select analog input for amplifier inputs for analog sound.	–
	No surround sound is output.	• The audio is connected to SURR 2.	• Connect to SURR 1.	19
	The surround sound level is low.	• The selector switch is set to SURR 1+2.	• Set the selector switch to SURR 1.	19
	Cannot output 192kHz or 176.4 kHz digital audio.	• The player does not output digital audio at these sampling rates.	–	–
	Cannot output 96kHz or 88.2 kHz digital audio.	• Some discs are digital copy protected and do not output high sampling rate digital audio.	• Check that the [Linear PCM] settings is not set to [Down Sample On].	49
	No DTS audio output.	–	• If this unit is connected to a non-DTS compatible amplifier or decoder using a digital audio cable, set [DTS Out] to [DTS ► PCM] in the Setup menu. If you do not do this, noise will be output if you try and play a DTS disc.	–
		–	• If this unit is connected to a DTS-compatible amplifier or decoder using a digital audio cable, check the amplifier settings, and that the cable is properly connected.	–
	Noticeable difference in DVD, SACD and CD volume.	• DVDs, SACDs and CDs use different recording methods.	• This is not a malfunction.	–
	Picture disturbance during playback or dark.	• This player is compatible with Macro-Vision System copy guard. Some discs include a copy protection signal and when this type of disc is played back, stripes etc., may appear on some sections of the picture depending on the TV.	• This is not a malfunction.	–
	No sound is reproduced.	• The Setup screen Audio menu [Linear PCM Out] setting is set to [Down Sample Off].	• Either connect using the analog outputs, or set [Linear PCM Out] in the Audio menu to [Down Sample On].	49
		• The Setup screen Audio menu [Digital Out] is set to [Off].	• Set [Digital Out] to [On].	49
		• A wrong sound signal conversion method is selected.	• Check the current sound signal conversion method, and select the right setting.	48, 49
		• The pause mode is engaged.	• Press ► or ❚❚ to exit the pause mode.	–
		• The volume level of TV or amplifier is set to minimum.	• Increase the volume level.	–
		• The DVD or CD is recorded in DTS audio.	• DTS audio is only output from the digital output jacks. Connect the digital output on the player to the digital input on a receiver or amplifier with a built in DTS decoder to hear DTS audio.	18
	The screen is stretched or aspect does not change.	• The multi aspect setting is not appropriate.	• Change the aspect setting in the [TV Screen] setting in the Setup screen Video 1 menu to the screen type most appropriate to the TV or monitor you are using.	52
		• The TV is connected with an S-video cord.	• If you connected your TV with an S-Video cord, in rare cases the TV picture may appear stretched. In this case switch the output from [S2] to [S1].	53

	Symptoms	Causes	Remedies	Pages
DVD Player	The disc containing the MP3 tracks won't play.	• The disc containing the MP3 tracks is not formatted in ISO9660. • The disc is not recorded in MP3 (MPEG-1 Audio Layer 3) format with a 32, 44.1 or 48kHz fixed bit rate.	• Check that the track(s) are in the MPEG1 Audio Layer 3 format. • Check that the sampling rate of the track(s) are 44.1 or 48kHz.	– –
	Some MP3 tracks appear to be missing from a disc.	• The track name does not end in “.mp3” or “.MP3”. • More than 251 folders and tracks are recorded on a disc. • A multi-session disc is inserted.	• This system will not recognize file that does not end in ".mp3" or ".MP3" as an MP3 track. Change the track name. • This player only recognizes the first 250 folders and tracks on a disc. If there are more folders/tracks than this, you will not be able to play them. • This player is not compatible with multi-session discs. If the disc is multi-session, you will only be able to play tracks recorded onto the first session.	7 7 7
Remote Controller	The buttons on the DVD Player operates but the buttons on the remote controller do not operate.	• No batteries are inserted in the remote controller. • The batteries are worn out. • The remote controller is not pointed at the remote sensor of the DVD Player. • The remote controller is too far from the DVD Player.	• Insert new batteries. • Replace with new batteries. • Point the remote controller at the remote sensor of the DVD Player. • Operate the remote controller within 5 m.	9 9 9 9

Because the unit contains a microcomputer to provide advanced functions, it may malfunction due to external noise or static electricity. If this happens, press the POWER switch on the unit and then press it again after about five seconds.

Specifications

■ General

Power supply	USA & Canadian models	AC 120 V, 60 Hz
	European models	AC 230 – 240 V, 50 Hz
	South American models	AC 230 – 240 V, 50 Hz
	World wide models	AC 120/220 – 230 V switchable, 50/60 Hz
Power consumption	USA & Canadian models	40 W
	European models	38 W
	Other models	36 W
Power consumption in standby mode	USA & Canadian models	8.6 W
	European models	10.8 W
	Other models	8.3 W
Weight	5.0 kg, 11.0 lbs.	
External dimensions	435 × 91 × 314 mm (W/H/D), 17-1/8" × 3-9/16" × 12-3/8"	

■ DVD Player

Signal system	USA & Canadian models	Standard NTSC
	Other models	PAL/AUTO
Regional restriction code	USA & Canadian areas	1
	European areas	2
	South American areas	4
	World wide areas	4, 3
Laser	Semiconductor laser, wavelength 650/780 nm	
Frequency range (digital audio)	DVD linear sound:	48 kHz sampling 4 Hz to 22 kHz
		96 kHz sampling 4 Hz to 44 kHz
	DVD-Audio:	192 kHz sampling 4 Hz to 96 kHz
	Audio CD:	4 Hz to 20 kHz
	SACD:	4 Hz to 96 kHz
Signal-to-noise ratio (digital audio)	More than 118 dB	
Audio dynamic range (digital audio)	More than 100 dB	
Harmonic distortion (digital audio)	Less than 0.001 %	
Wow and flutter	Below measurable level (less than ±0.001 % (W.PEAK))	
Operating conditions	Temperature: 5°C to 35°C, Operation status: Horizontal	

■ Outputs

RGB signal output (European models)	0.7 V (p-p), 75 Ω, SCART socket × 1
Video output	1.0 V (p-p), 75 Ω, negative sync., pin jack × 2
S-video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., Mini DIN 4-pin × 2 (C) 0.286 V (p-p), 75 Ω
Component Signal output	(Y) 1.0 V (p-p), 75 Ω, negative sync., pin jack × 1 (Cb, Pb)/ (Cr, Pr) 0.7 V (p-p), 75 Ω
Audio output (European models)	2.0 V (rms), 440 Ω, SCART socket × 1
Audio output (digital output Optical)	– 22.5 dBm × 2
Audio output (digital output Coaxial)	0.5 V (p-p), 75 Ω, pin jack × 1
Audio output (analog audio)	2.0 V (rms), 440 Ω, pin jack (L, R) × 2
Audio output (5.1 channel analog audio)	2.0 V (rms), 440 Ω, pin jack (Lo/Lt, Ro/Rt, SL1, SR1, C, SW) × 1 1.4 V (rms), 440 Ω, pin jack (SL2, SR2) × 1

Specifications and features are subject to change without notice.

Memo

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